

1. Will there be a 64-bit environment on the new SAS server?
Yes.
2. What is your methodology for handling change orders and what is its impact on pricing? Should we include a change order contingency in our budget?
It is anticipated that respondents will provide an adequate proposal based on the services required to fulfill the entire scope of services. In the event the **selected contractor** discovers that awarded contract funds or terms might be inadequate for the services being performed and the LDWF/OF deems it to be true, the contract amendment process could then be undertaken to remedy the situation.
3. Can we get report code?
Yes. See Attachment 1.
4. Is there a budget for this project and if so, will you disclose the amount?
The budget will be established when the contractor has been selected and will be based on the solution identified by the selected contractor.
5. Will you allow some off-site (not offshore) work and if so, how much (i.e. 50%, etc)?
LDWF policy and procedure #62 (General Information Technology Security) provides for the security of the network system and data bases. In order to assure the security of the network and confidential data sources, the remote (VPN) connection will not be available to the successful contractor. Application code may be developed off-site. Only copies of non-confidential data will be allowed off site. The confidential data sources, must remain on site. Any access to servers and confidential data must be done on-site utilizing LDWF provided secure connections. See attachment 2.
6. Between Data Conversion and Interfaces to enter data into the database, are there any processing applications (replacing for any existing applications that process the data) that need to be built?
There are error checks built into data entry applications which will need to be incorporated into the new system as well as any automated processing that will need to occur after business hours. LDWF/OF will entertain all other options if the benefits of the proposed solution can be demonstrated.
7. The proposed implementation, according to the RFP, seems to have both the SQL and SAS data conversion. Is this an accurate observation?
Active and historic project SAS datasets will be converted to SQL. Some existing data sets will be identified as those requiring only conversion to the current version of SAS. Existing identified SQL datasets will need to be linked and analyzed by SAS. Existing SQL datasets will not be converted to SAS format.
8. Does LDWF have any standards for relational database structuring that should be considered for purposes of estimating the database design/development work?
The database should be in second normal form or higher.
9. What specific needs do LDWF have with respect to linked SQL tables?
Tables created will need to be designed for optimal functionality. Certain existing SQL tables will need to be linked to other data sets for analysis in SAS.

10. Can LDWF be more specific with respect to the following requirement: ‘GUI interfaces providing summary routines’? What is specifically meant by summary routines?

The LDWF/OF employs stored SAS programming for the purpose of producing summary reports for use in fisheries management. The programs produce a variety of useful statistical information from our data sets. These stored programs are accessed via menu selection. We require that this capability be carried over to the new Data Management System.

11. Can LDWF provide more details on this requirement – “An end user application for workflow capabilities defined by features and functions that can be added to the data management system if the LDWF/OF should determine a need for such capabilities’? What specific workflow capabilities is LDWF seeking? When would LDWF determine if a need exists for these capabilities?

LDWF/OF requires that all existing workflows be ported to the new Data Management System. At the same time, LDWF/OF recognizes the probability of adding new research in the future and desires a system which will allow the creation of interfaces for these new projects as they arise.

12. Is the vendor expected to provide both software and hardware for this solution? Would licensing costs be covered under an Enterprise licensing agreement with MS or SAS, or should prospective vendor include those in the proposed cost?

LDWF/OF will purchase all hardware through existing state contracts. LDWF/OF will procure the necessary Server OS Licenses, MS SQL databases and MS SQL database client access licenses. LDWF/OF will also procure any appropriate SAS server and Enterprise guide licenses required. If a vendor proposal recommends any additional software solutions, they must provide for the procurement as part of their proposal. If additional software is proposed, the vendor must also provide projected renewal cost for that software component.

13. Attachment V: shows an existing server with software. Should vendors assume hardware and software have already been procured for this project and exclude those costs from the estimate?

See questions 12 and 50.

14. What is specifically meant by ‘All components comprised of commercially available software compatible with, but not limited to Microsoft and SAS products’?

LDWF/OF wishes the solution to be constructed of commercially available products that have a high probability of maintaining support and availability from the manufacturer for the foreseeable future. Specifically, LDWF/OF does not want a custom-written (via language, C++, e.t.c.) interface.

15. Was a contract for the Oyster Integrated Lease Information Environment Project awarded?

Yes.

Does the scope of this proposal require integration to the Oyster Lease system that was supposed to begin deployment on 1/1/09?

No.

If there is a system in place, can you please provide a description of that system and who received the contract?

There is no system in place at this time.

16. Will you provide a copy of all data listed in the Metadata Library, including the Access database by August 31st?
The LDWF/OF will not release its data at this time as it desires to work with the successful contractor to redesign these databases from the ground up.
17. Do most of the reports produced by LDWF/OF involve count data?
LDWF/OF end users produce a wide variety of summary statistics, some of which is count data.
18. Please confirm that LDWF does expect that automated integration with all other agency data/system is included in the scope of this proposal and that LDWF will continue to utilize their existing processes of import and export to send and receive data to other organizations?
The LDWF/OF does not expect full automation with external agency data. The LDWF/OF desires a system which will allow for the import of data from sources utilizing common standards (ASCII, etc.). The LDWF/OF also desires a system which will output data in formats that can be utilized by outside agencies (ASCII, dBase, Access).
19. Have you awarded a similar contract in the past?
See question 15.
If so, with whom, and what was the scope of the financial investment?
See question 15.
20. What do you expect the contract award to be for this project?
See question 4.
21. Can you grant a bid opening date extension? Based on the time it takes to answer the questions?
The LDWF/OF of Wildlife and Fisheries has determined that the information provided in the RFP and the answers contained herein should be adequate enough to prepare responses by the deadline stated in the RFP.
22. Who is the current SAS contractor/vendor you use?
LDWF/OF purchases SAS software directly from SAS.
23. Who conducted the surveys and the analysis included in the RFP?
LDWF/OF Data Management staff.
Will you provide a full report of that information by August 31st?
The full report is contained in the RFP.
24. Has the SAS software listed in the RFP already been purchased or will it be purchased prior to the start of the project? Will the software be installed by the time the project begins?
All software listed in the RFP will be purchased prior to the start of the project. SAS and SQL software installation and configuration is expected as part of the work to be completed and should be included in vendor proposals.
25. What GIS System do you currently use or plan to use?
LDWF/OF staff currently use ESRI and Intergraph products.
26. Can we get sample copies of the paper forms and any electronic forms that are used to collect information that will be stored in the proposed system by August 31st?
See attachment 2.
Does the scope of the project include building user interfaces to replace all of these paper and other forms of data collection?

Interfaces will not replace paper collection at this time.

Is it expected that the user interface for data input will be a Web Browser Client (like Internet Explorer) accessible through the internet or network?

LDWF/OF will entertain all options if the benefits of the proposed solution can be demonstrated.

27. What will be the measurable and reportable outcomes expected from the implementation of this system?

Improved data access, processing time, flexibility and portability.

28. Can we get sample copies of reports currently generated from the information tracked in the files listed in the Metadata Library by August 31st?

Representative samples of report outputs were included on the CD given at the mandatory pre-proposal Conference.

Have new reports been defined that are expected to be generated by the new system?

No.

29. Will VPNs for remote desk topping be ready to go when project begins?

See question 5.

30. If not, will LDWF require help from contractor in making purchase decisions and/or installation of software?

No.

31. Has SAS Enterprise Guide been used by LDWF/OF in the past or is it new to all/most staff?

Enterprise Guide will be new to most staff.

32. Will current high-level SAS programmers be utilizing SAS Enterprise Guide for future work or will they continue with programming in base SAS code?

Enterprise Guide does allow for high-level programmers to continue writing programs themselves, although some high-end users will continue to code in base SAS.

33. Can we get a list of the agencies outside of LDWF which utilize their reports?

Gulf States Marine Fisheries Commission, United States Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Department of Environmental Quality, Department of Health and Hospitals. This list should not be considered final or all-inclusive.

34. Are there any outcome-based requirements that LDWF must provide for fiduciary purposes? (i.e. evidence that programs are meeting defined goals, expectations, costs, monetary gain/loss, etc)

The state is in the process of implementing outcome-based budgeting.

35. Will LDWF/OF purchase software licenses needed for PC SAS to replace the licenses used on the current system or should the proposer include the cost in their bid?

See question 12.

Or is the 50 Enterprise Guide licenses mentioned in the new server configuration mentioned in Attachment V adequate for the purposes of LDWF/OF?

See question 12.

If the proposer is responsible for purchasing the PC SAS licenses, how many are needed and what version?

See question 12.

36. During the bidder's conference, I asked if MS SharePoint had been implemented at LDWF and the answer was affirmative. Please explain what components of SharePoint were installed and are available for use on this project.

Windows SharePoint Services (WSS 3.0) is available for use.

37. Will it be possible to provide the Access databases for download or the screen shots and schema shown in the pre-bid conference?

While the LDWF/OF does possess schema for the Access data in use at this time, it is our desire to work with the successful contractor to redesign these databases from the ground up.

38. Please confirm that the only versions of SAS files to be converted are the most recent files rather than each version of the file.

Confirmed.

39. How many total files need to be converted?

Please see attachment 4 for a list of files. This list should not be considered complete or final.

40. For the interfaces to this system that were mentioned during the pre-bid conference, is there documentation, other than the CD provided, available to review prior to submitting a bid?

LDWF/OF feels that the samples provided on the CD are representative of the existing system design. It is the LDWF/OF's desire to move forward with a new system design that takes advantage of current hardware and database design and functional capabilities.

41. Can SQL Server 2008 be used instead of SQL Server 2005?

Yes.

42. What is the threshold of acceptable "notification" in the event of a data breach or disclosure, pursuant to page 34, item 25?

This provision requires that immediately upon discovery of the breach by contractor, appropriate notice to both the Department and the person(s) whose information has been breached based on the circumstances of the breach. In the event the Department determines additional notice measures are required, the Department will notify the contractor or itself provide the additional notification. Contractor will be responsible for the costs of the notification based upon their liability as provided in this provision. The determination of contractor's liability will either be agree upon or be determined through appropriate legal avenues.

Does the notification process follow standards such as PCI?

See attachment 3.

43. Page 34, item 25 states that the contractor will notify persons of a breach "for reasons relating to this contract when such breach is attributable, either in whole or part, to the action, negligence or failure to act on the part of the contractor". Who conducts and how is partial or whole culpability determined?

This provision requires that immediately upon discovery of the breach by contractor, appropriate notice to both the Department and the person(s) whose information has been breached based on the circumstances of the breach. In the event the Department determines additional notice measures are required, the Department will notify the contractor or itself provide the additional notification. Contractor will be responsible for the costs of the notification based upon their liability as provided in this provision. The determination of

contractor's liability will either be agreed upon or be determined through appropriate legal avenues. See attachment 3.

What is the "partial" threshold at which the contractor is expected to bear the full cost of notification?

See attachment 3.

44. Who will be the users of the system?

Users will be Office of Fisheries employees ranging from technicians to biologists.

How many users are anticipated?

See table 1.

What is the anticipated user growth rate throughout the lifecycle of this project?

User growth is not expected to be exponential due to caps on head count, but it is expected that the proposed system be flexible and allow for growth in projects and users as the circumstances arise.

45. Does the LDWF/OF utilize Microsoft Active Directory?

Yes.

46. What is the overall budget for this initiative?

See question 4.

47. What is the size of the LDWF/OF's IT staff?

The IT staff consists of 6 developers and 4 technical support staff.

Is the LDWF/OF utilizing outside contractors to augment its IT staff?

If so, which contractors are being used and what functions are they providing?

We currently do not use contract augmentation.

48. What languages does the application need to support?

English.

49. What web browsers should be supported by the application?

Internet Explorer (V 6.x, 7.x, 8.x)

50. Line 1 of the cost proposal defines continued maintenance costs such as Licensing. Is it correct to assume that licensing applies only to application software or COTS that we include as part of our solution and does not include Microsoft tools (SQL server, IDE), SAS, etc?

Yes.

51. The definition of a DMS includes hardware. Is it correct to assume that the hardware to be used is as defined in Attachment V and therefore hardware prices should not be included in this proposal?

Additional hardware that is recommended by the contractor and accepted by LDWF/OF will be purchased by LDWF/OF.

52. Is it possible to tell us what budget has been allocated to this procurement?

See question 4.

53. Please provide appendix A, B and C referenced in the Mainframe Users Manual. (If Marsha doesn't make it in, can we find this?)

For Appendices A and B, See attachment 4. For Appendix C, see attachment 3.

54. Our understanding is that the project scope is to convert the existing data, develop data cleansing routines, construct a data import/export engine to manage schedule data transformations and develop a front end to edit various data sources. Is this correct?
Yes.
55. It is our understanding that the analytical features of the existing system will remain in PC SAS and is not part of the RFP scope. Is this correct?
No.
56. Is the vendor responsible to keep the existing SAS interfaces and the local Access databases operational against the new database or will LDWF staff support this function? If vendor must include this scope, please quantify the number of local databases and the functions they contain.
LDWF/OF will continue to support the functionality of the current data management system for a period of time during conversion and testing of the new system.
57. Does the LDWF/OF have a hardware configuration capable of running Microsoft IIS for web pages?
Yes.
58. Slide 13 of the PowerPoint has 9 inland data sources described as Access databases. Must the vendor import these Access databases into the DMS at project startup or is this data already in SAS?
The data is to be transferred from Access to SQL at project startup.
Must the vendor provide data entry routines for the Access databases on slide 13?
Yes as well as routines for all other projects.
59. Please provide copies of all Access database that the vendor must price in the initial data import.
See question 37.
60. Please provide copies of all Access database that the vendor must price development of data entry screens.
See question 37.
61. In exhibit 1 of the RFP, survey Question 6 of the asked LDWF User's about their use of Projects 1, 2, 3, 4 5 and 6. Please describe these datasets and are they part of the overall data dictionary?
These projects are described in both the PowerPoint presentation and data dictionary included on the CD given at the mandatory pre-proposal conference and data viewing.
62. Does the vendor need to import data for project 7, 10, 12, and 13 that are indicated as historical in the Power Point?
Data for all projects must be imported.
63. Regarding project 8, the CD has an Access database. Must the vendor create data entry forms that are in the Access database?
Yes, data entry forms must be created for project 8. The proposer must include the proposed method for form development and are not restricted to Access for data entry since the final data will be converted to SQL format. See question 37.
64. Are there any frontend data edit screens currently used by LDWF that are included in the project scope other than the screens in the mainframe user manual and the SEAMAP program?

See question 40.

If the vendor should develop other data entry screens, please provide copies of the screens or quantify the data sources and workflow process that the data entry screens are needed for.

See question 40.

65. Is the data dictionary provided on the CD all of the data sources that LDWF wants included in this project for data migration from the mainframe to MS SQL server?

See question 39.

Are there any Access databases or other data sources that must be imported into MS SQL Server in the initial data load? If so please provide a listing of the sources and documentation of the databases.

See question 39 and slides 11-13 of the PowerPoint presentation on the cd given at the mandatory pre-proposal conference.

66. Are all of the external data sources that the contractor must develop schedule import routines for listed in the two Marine Data and the one inland data slide in the PowerPoint? If more data sources must be automated please provide a listing and dictionary.

See questions 18, 33, 103, and PowerPoint slide 8.

67. Does LDWF use the terms Project for Project 1 through 15 as a reference number to a grouping in SAS or does the term project have other meaning?

LDWF/OF has used this terminology for internal tracking purposes, but this should not be used for development of this system.

68. The table below list all the data sources described in the RFP, Power Point and Data Dictionary. Please indicate a Yes or No in the column under "Part of Vendors DMS Scope" for the purpose of quantifying the size of the project. If any data sources are missing from the list, please add them or identify where the additionally data sources are described in the RFP.

See table 2.

Kindly, provide any data entry screens that have not been provided on CD.

See question 40.

Please indicate the current source of the data entry (i.e. mainframe, access, pc sas, etc.) if the data entry is part of the vendor's scope in the Data Entry Interface Required column below.

See table 2.

69. Will the contractor be allowed remote access to the legacy environment, and the new environment?

See question 5.

70. Will the contractor be allowed to take copies of data, in electronic format, to be worked on at the contractor's office?

See question 5.

71. For any meta-data repository or data dictionary sources holding information about current applications, databases, files, etc., is the content of these available via standard/documented interfaces?

Our metadata has been entered into InPort, but has not been published due to anticipated changes during the creation of the Data Management System.

72. Does any other state agency have oversight responsibility for the project?

This project was initially approved by the Office of Information Technology. In addition, the Division of Administration, Office of Contractual Review must approve all contracts of this magnitude, and the Office of the Legislative Auditor has the right to review any contracts/expenditures as well.

73. Is there any additional information about which SAS and other legacy formats the data are in?

No.

74. How many sources provide data to the database?

Multiple.

What format?

ASCII text, SAS 9.x.

Do all data providers contribute the same dataset?

No.

If there are different datasets, what are they?

See table 2.

75. What scientific instruments are being used to gather data?

A variety of field sampling gear is employed including, but not limited to, YSI sondes/hand units, SEABIRD CTD meters, Li-Cor light meters.

Are you expecting an upload or manual data entry to populate the database?

It is anticipated that manual data entry will continue for this data type, but if the proposer can demonstrate an appropriate solution, it will be considered.

76. Have the LDWF/OF process workflows been completed?

No.

If so, are they available to potential vendors?

No.

77. Does the System Requirements Specifications include the DMS recommendations, or are the recommendations to be a separate document called the Data Management System Recommendations?

Separate.

Is the DMS Analysis Requirements Documentation referred to in Attachment II the same document as the System Requirements Specifications named in Attachment I?

No.

78. Does the 7-page limit for the section apply to Corporate Background only, or does it include Corporate Experience, too?

Total response is limited to 7 pages.

79. Would extracts from sample documentation fulfill the requirement to include examples?

Yes.

80. Is the vendor expected to provide backup/failover/disaster recovery setup?

Vendor should be prepared to assist WLF IT staff in establishing backup procedures for the SAS IT server and its data. We currently utilize Symantec Backup Exec software for our current servers.

81. How many users will be accessing the system? Please provide a number for the total number of users and the number of concurrent users, both on site at the agency and in the field?

See question 44 and table 1.

82. Does the agency have a full time SQL DBA?

No.

If not, will this position be opened?

No.

83. Are there any additional details about how many agency people will be assigned to the project and their availability (FTE, as needed, etc)?

LDWF/OF will assign Fisheries and IT staff as needed by the contractor to complete this project.

84. What are the LDWF/OF's intentions towards SAS going forward?

LDWF/OF will be utilizing SAS as described in the RFP, but is open to further suggestions if the benefits of the proposed solution can be demonstrated.

Should bidders assume that SAS is the platform of choice for analytics, reporting and data integration, or should SAS only be considered as representative of the capabilities expected in the new system?

LDWF/OF is open to any commercially available products which can produce functionality comparable to SAS if the benefits of the proposed solution can be demonstrated.

Please respond specifically in the categories of data integration (ETL), data analysis, and report delivery (BI).

ETL and BI are not options that LDWF/OF will consider at this time. LDWF/OF is open to data analysis via SAS or other product capable of producing the same functions as SAS if the benefits of the proposed solution can be demonstrated.

85. Does the LDWF/OF expect bidders to be bound to their cost estimates for all implementation phases or can bidders submit non-binding estimates for subsequent phases pending the analysis activities of Phase 1?

LDWF/OF considers estimates to be binding for all phases of the project. See question 2.

86. Does the LDWF/OF have any expectations or existing estimates for the portion of each phase as compared to the whole (i.e., we expect Phase 1 to be 10%, Phase 2 to be 40%, etc)? Looking especially to quantify the data architecture redesign vs the user interface effort.

LDWF/OF is open to suggestions.

87. Does the LDWF/OF have a preference in modeling software?

LDWF/OF is open to suggestions.

88. Are there any restrictions on remote and/or offshore service delivery?

See question 5.

89. Please explain and quantify the current LDWF/OF data stewardship/data quality processes as applied to the relevant data. What activities, at what frequency, and by how many users are required to "cleanse" incoming data?

Data cleansing varies by project. For fisheries independent data, initial checks are built into the data entry routines, followed by a series of programs to identify outliers (an initial check before

saving to master and then quarterly checks). Individuals who collect the independent data are responsible for cleansing. Trip ticket data which are scanned into the system are first passed through OCR software and then several levels of error checks, as data are saved to the master they are again put through a series of error check routines (frequency is at the daily level, monthly level and annual level). Trip ticket cleansing requires a staff of 3 fulltime biologist and 1 fulltime supervisor.

90. What level of technical expertise remains in the LDWF/OF regarding the legacy systems?

Original designer and programmer are still on staff.

Are any of the original designers or operators of the systems available for interview/collaboration?

Yes.

91. What geospatial (GIS) data requirements (if any) should be considered by the bidders?

LDWF/OF is open to vendor suggestions if the benefits of the proposed solution can be demonstrated.

92. Are there any pervasive (mobile) computing requirements for any phase of the solution?

No.

93. Page 1, Para. 1.1, Phase 1 states, "The inventory shall be conducted with appropriate oversight by the LDWF/OF to ensure all necessary files and processes are accounted for." Please define, "appropriate oversight by the LDWF/OF". Will LDWF provide full time resources to participate in this inventory or will it be necessary for the Contractor to perform this inventory around the schedule of LDWF participants?

See question 83.

94. Page 1, Para. 1.1, Phase 2: Please define the number of LDWF/OF staff that will need to be involved in analyzing the data sets. This will allow the Contractor to attempt to effectively determine the level of effort required.

See question 83.

95. Page 1, Para. 1.1, Phase 3: Please define "appropriate oversight by the LDWF/OF" in terms of time commitments from LDWF/OF .

See question 83.

96. Page 4, Para 2.2.2: Generally, under a Fixed Price agreement, time sheets are not required by the Client. Are timesheets required for this engagement?

Yes. We anticipate this contract to be based on a "fee schedule" type contract not a "fixed price" contract.

97. Page 6, Para. 3.2.1.1: Please define the amount of data entry that will be required?

Any data entry related to the creation of the interfaces or processing required to build the Data Management System.

98. Page 16, Para 2.2: Please identify the number of "basic" users that will need training. Also please address whether or not all users will be available for one training class or whether multiple classes and/or multiple locations will be required.

Training will need to be conducted at multiple locations. We anticipate no less than two trainings. Total basic user training is estimated at 75% of total users. See table 1.

99. In section 2.2 Project scope on page 16, projected costs of operation and maintenance are for a period of 10 year. In section 4.0 Data Management Deliverables, section C. calls for estimated costs for 5 years. Please explain the difference.

This is an error in the RFP. The period for both should be 5 years.

100. At the Pre-Proposal conference you mentioned that an internal effort was undertaken that produced a preliminary design for the new database/system. Can you provide the design specifications for this preliminary effort?

No. This design scheme is only a single users view of the data base design and should not be interpreted as being the final scheme desired by LDWF/OF. It is the intent of this RFP that the successful contractor work with LDWF/OF staff to make the final design for the new database/system.

101. On page 22, Section F “Project Management and Work Plan”, Number 1 “Proposed Work Plan”, you state that proposers should state their “availability and responsiveness to the LDWF/OF’s immediate timetable. What is your immediate timetable?

LDWF/OF wishes to begin this project as soon as possible.

102. Does this project include ISIS or any other internal accounting integration?

No.

103. What state and federal agencies, universities and organizations do you use to populate your databases?

National Marine Fisheries Service, Louisiana State University, Environmental Protection Agency, State Office of Climatology, United States Geological Survey. This list is only an example and should not be considered all inclusive. See question 33.

104. What type of licenses and permits do you track?

This Data Management System will not be used to track either. It will be used to read existing SQL databases for reporting purposes.

105. Do you expect the new application to manage the licensing processes or will it only import licensing information for reporting purposes?

See question 104.

106. Can the same individual or organization hold multiple licenses?

Yes.

107. Can we get the inland Fisheries database schema?

See question 37.

108. What are trip tickets and who uses them?

Trip tickets are a legislatively mandated reporting system for Louisiana wholesale/retail dealers, fresh product license holders and commercial fishermen. A trip ticket landings report must be completed at the time of transfer or sale of a seafood product from a licensed commercial fisherman to a licensed wholesale/retail dealer or from a fresh products license holder to a consumer. Required fields include the name and license number of the commercial fisherman, year, month and date of transaction, primary area fished and gear utilized, trip time, vessel registration number, wholesale/retail dealer name and license number, species landed, landings unit and condition, volume of product landings and unit price. Trip ticket must be returned to the LDWF/OF of the 10th of the following month.

109. Is it possible to export your SAS data into ASCII?
Yes.
If so, can you provide it to us?
No.
110. The phases described on page 1 seem to be somewhat different from those referenced for costing on page 11. Are they the same phases? Should we reference page 1 for descriptions?
Page 1 lists the phases LDWF/OF envisions the process requiring for completion. The listing on page 11 may be considered sub-phases for reporting project deliverables relative to each phase. Each phase will require planning, documentation and implementation.
111. What reports need to be generated from the system?
See questions 28 and 40.
112. Will data sets (currently residing on user PCs) need to be managed by the Data Management System?
Yes.
If so, should personal data sets be sharable between users?
No.
113. What percentage of the overall data is currently residing on user PCs?
Less than 1%.
114. Do you want role-based security based on individual log-in IDs? Do you want one log-in for access to the system?
Yes.
115. Does LDWF have an Entity Relationship Diagram of the various databases, or will it need to be developed?
An Entity Relationship Diagram will need to be developed.
116. Does LDWF want point-in-time data set recovery? (Example: Do you want to recover Jane Doe's edits to a data set on February 2009 or just the last two versions of updates to the data set?)
LDWF/OF currently maintains last 5 versions of backups, but are open to suggestions.
117. Do you want a GIS component?
See question 91.
118. What GIS software does LDWF currently have?
See question 25.
119. Are all the LDWF GIS users on the same network?
No.
120. At this phase of the project, are GIS users "read only" users or do they edit spatial data?
Read only.
121. Can you please define "GIS friendly"?
The ability to work with GIS software requirements. Produce an output which can be imported into a GIS. Data formatted to function with a GIS (i.e. properly formatted Latitude/Longitudes)
122. Are any reports derived from GIS data?
No.

Table 1: System users by Division and by Office

By Division:	Count
Marine Fisheries Users	74
Research and Assessment Users	49
Inland Fisheries Users	39

By Office:	Count
Grand Isle	11
Minden	3
Monroe	4
Alexandria	3
Ferriday	3
Opelousas	4
Booker Fowler	4
New Iberia	10
Lake Charles	10
Lacombe	10
New Orleans	18
Baton Rouge	66
Bourg	13
Toledo Bend	3

Table 2: Data Sources as requested by GCR & Associates, Inc.

LDWF Data Sources			Part of Vendors DTMS Scope			
Project ID#	Description	Status	Data Entry Interface Required	Requires Initial Import into SQL Server	Requires Recurring Import Process	Requires Recurring Export Process
Project 1	Shrimp/Groundfish	Ongoing	Yes/Mainframe	Yes		Yes
Project 2	Marine Finfish Monitoring	Ongoing	Yes/Mainframe	Yes		Yes
Project 3	Oyster Monitoring	Ongoing	Yes/Mainframe	Yes		Yes
Project 5	Isohaline	Ongoing	Yes/Mainframe	Yes		Yes
Project 6	Constant Recorder	Ongoing	Yes/Mainframe	Yes	Yes	Yes
Project 7	LOOP Environmental Monitoring	Historical	No	Yes		Yes
Project 8	SEAMAP Environmental Monitoring	Ongoing	Yes/dB3	Yes		Yes
Project 10	Brine Monitoring Project	Historical	No	Yes		Yes
Project 12	Plankton Monitoring	Ongoing	Yes/Mainframe	Yes		Yes
Project 13	Hypoxia Monitoring	Historical	No	Yes		Yes
Project 14	National Coastal Assessment 2000	Intermittent	Yes/EPA custom	Yes		Yes
Project 15	FIN Biological Parts Sampling	Ongoing	Yes/Mainframe	Yes		Yes
	Crab Effort	Ongoing	Yes/TBD	Yes		Yes
	Fin Trip Ticket Reporting	Ongoing	No	No		No
	Menhaden Data Collection	Ongoing	Yes/Mainframe	Yes		Yes
	Trip Tickets	Ongoing	Yes/Mainframe	Yes		Yes
	Trip Interview Program	Ongoing	Yes/Mainframe	Yes		Yes
	Charter Boat Pilot Survey/VDTS	Ongoing	Yes/Mainframe	Yes		Yes

	Marine Recreational Fisheries Statistics Survey	Ongoing	Yes/Mainframe	Yes		Yes
	Inshore/Offshore	Historical	No	Yes		Yes
	CALECO	Historical	No	Yes		Yes
	River Discharge	Ongoing	Yes/Mainframe	Yes	Yes	Yes
	Precipitation	Ongoing	Yes/Mainframe	Yes	Yes	Yes
	Air Temperature	Ongoing	Yes/Mainframe	Yes	Yes	Yes
	West Hackberry	Historical	No	Yes		Yes
	LORI	Historical	No	Yes		Yes
	Artificial Reef	Ongoing	Yes/Excel	Yes		Yes
Project 4	Freshwater Finfish Monitoring	Ongoing	Yes/Mainframe	Yes		Yes
Project 11	Inland Creel Surveys	Ongoing	Yes/Mainframe	Yes		Yes
MS Access Databases						
Project ID#	Description	Status				
	Aquatic Vegetation Control Operations	Ongoing	Yes/Access	Yes		Yes
	Aquatic Vegetation Observations	Ongoing	Yes/Access	Yes		Yes
	Boat Ramp Evaluation	Ongoing	Yes/Access	Yes		Yes
	Boat Ramp Maintenance	Ongoing	Yes/Access	Yes		Yes
	Stream Clearing	Ongoing	Yes/Access	Yes		Yes
	Stocking	Ongoing	Yes/Access	Yes		Yes
	Annual Stocking Request	Ongoing	Yes/Access	Yes		Yes
	Permits	Ongoing	Yes/Access	Yes		Yes
	Age/Tissue Samples	Ongoing	Yes/Access	Yes		Yes

Attachment I: Sample Summary Programs

(Programs included are indicative of those used but do not represent all summaries necessary)

Finfish Summary 1: Year/Average

```
OPTIONS LS=78 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
LIBNAME IN1 'biomain:';
LIBNAME IN2 'phsmain:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " FINFISH MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " YEAR/AVERAGE SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#6 @26 "ENTER COASTAL STUDY AREA:" +5 AR 1 ATTR=HIGHLIGHT
#8 @26 "ENTER YEAR OF INTEREST: " +2 YR 4 ATTR=HIGHLIGHT
#10 @26 "ENTER YEARS FOR AVERAGE: " +2 BYR 4 ATTR=HIGHLIGHT
#10 @60 "-" +2 EYR 4 ATTR=HIGHLIGHT
#11 @26 "FULL YEAR EX: (2000)"
#14 @26 "ENTER TAXA OF INTEREST: " +2 SP 4 ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT1=%SUBSTR(&YR,3,2);
DATA BIOFIN ;
SET IN1.BIO2_&DAT1;
TAG=1;
IF AREA=&AR ;
;
DATA PHSFIN (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
SET IN2.PHS2_&DAT1;
TAG=1;
IF AREA=&AR;
;
%DO I=&BYR %TO &EYR;
%LET DAT2=%SUBSTR(&I,3,2);
DATA BIOFILE ;
```

```

SET IN1.BIO2_&DAT2;
  TAG=1;
  IF AREA=&AR ;
;
  DATA PHSFILE (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
  SET IN2.PHS2_&DAT2;
  TAG=1;
  IF AREA=&AR;
;
PROC APPEND BASE=BIOFIN DATA=BIOFILE;
  APPEND BASE=PHSFIN DATA=PHSFILE;
RUN;
QUIT;
%END;
;
DATA MASTER;
  SET M.MASTER;
PROC SORT;
  BY PROJECT SPECIAL AREA STATION;
PROC SORT DATA=BIOFIN;
  BY PROJECT SPECIAL AREA STATION;
DATA BIO;
  MERGE BIOFIN MASTER;
  BY PROJECT SPECIAL AREA STATION;
DATA BIOFIN;
  SET BIO;
  IF TAG=1;
PROC SORT DATA=PHSFIN;
  BY PROJECT SPECIAL AREA STATION;
DATA PHS;
  MERGE PHSFIN MASTER;
  BY PROJECT SPECIAL AREA STATION;
DATA PHSFIN;
  SET PHS;
  IF YEAR NE &YR THEN YEAR=9999;
  IF TAG=1;
;
DATA TEMPO;
  SET BIOFIN;
  IF TAXA=&SP;
;

```

```

proc sort data=TEMPO nodupkey out=t (keep=PROJECT SPECIAL MARSH area year month day time
station gear taxa t_num);
  by PROJECT SPECIAL area YEAR month day time station gear MARSH TAXA;
DATA T;
SET T;
IF YEAR NE &YR THEN YEAR=9999;
proc sort;
  by PROJECT SPECIAL area YEAR gear MARSH MONTH TAXA;
proc MEANS SUM NOPRINT;
  by PROJECT SPECIAL area YEAR gear MARSH MONTH TAXA;
VAR T_NUM;
OUTPUT OUT=T1 SUM=CAT;
data CATCH (keep=PROJECT SPECIAL area YEAR gear MARSH MONTH taxa cat);
  set t1;
;
proc sort data=BIOFIN nodupkey out=t (keep=PROJECT SPECIAL MARSH area year month day time
station gear );
  by PROJECT SPECIAL area YEAR month day time station gear MARSH;
DATA T;
SET T;
IF YEAR NE &YR THEN YEAR=9999;
proc sort data=t;
  by PROJECT SPECIAL area year GEAR MARSH MONTH;
proc freq;
  by PROJECT SPECIAL area year GEAR;
table MARSH*MONTH / out=t1 noprint;
data EFFORT (keep=PROJECT SPECIAL MARSH area YEAR gear MONTH SAMP TAXA);
  set t1;
SAMP=COUNT;
TAXA=&SP;
proc sort;
  by PROJECT SPECIAL area YEAR gear MARSH MONTH TAXA ;
;
PROC SORT DATA=PHSFIN;
  BY PROJECT SPECIAL AREA YEAR MARSH MONTH;
PROC MEANS MEAN NOPRINT;
  BY PROJECT SPECIAL AREA YEAR MARSH MONTH;
VAR SAL1 SAL3 TEMP_W1 TEMP_W3;
OUTPUT OUT=T MEAN=T_SAL B_SAL T_TEMP B_TEMP;
DATA PHS (KEEP=PROJECT SPECIAL AREA YEAR MARSH MONTH T_SAL B_SAL T_TEMP B_TEMP);
  SET T;
;

```

```

data TEST;
merge CATCH EFFORT;
by PROJECT SPECIAL area YEAR gear MARSH MONTH TAXA;
DATA BIO;
SET TEST;
IF CAT LT 1 AND SAMP GT 0 THEN CAT=0;
if cat lt 1 and samp gt 0 then tce=0;
IF CAT GT 0 AND SAMP GT 0 THEN TCE=ROUND((CAT/samp),.1);
RUN;
PROC FORMAT;
VALUE YE
9999='AVERAGE';
proc tabulate DATA=BIO MISSING FORMAT=8.;
TITLE1 'FINFISH PROGRAM YEAR/AVERAGE SUMMARY';
TITLE2 "FOR AREA &AR , &YR COMPARED TO &BYR - &EYR" ;
class gear YEAR MARSH TAXA MONTH;
var TCE CAT SAMP ;
table TAXA='SPECIES='*gear='GEAR='*MARSH='MARSH=',MONTH=',YEAR="
*(SAMP='SAMPLES'*SUM="*F=8. CAT='CATCH'*SUM="*F=COMMA8. TCE='C/E'*SUM="*f=8.2)
/ RTS=7 ROW=FLOAT PRINTMISS;
format gear gear. TAXA SP_COM. MONTH MON. MARSH MARSH. YEAR YE.;
run;
proc tabulate DATA=PHS MISSING FORMAT=6.;
TITLE1 'FINFISH PROGRAM YEAR/AVERAGE SUMMARY';
TITLE2 "FOR AREA &AR , &YR COMPARED TO &BYR - &EYR" ;
class YEAR MARSH MONTH;
var T_SAL B_SAL T_TEMP B_TEMP;
table MARSH='MARSH=',MONTH=',YEAR="
*(T_SAL='TOP SAL'*SUM="*F=6.2 B_SAL='BOT SAL'*SUM="*F=6.2 T_TEMP='TOP TEMP'*SUM="*f=6.2
B_TEMP='BOT TEMP'*SUM="*F=6.2)
/ RTS=7 ROW=FLOAT PRINTMISS;
format MONTH MON. MARSH MARSH. YEAR YE.;
run;
%ABT;;
%MEND WIN;
%WIN

```

Finfish Summary 2: Monthly Samples Taken

```
OPTIONS LS=78 PS=60 NODATE;
libname IN 'BIOMAIN:';
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " FINFISH MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " MONTHLY SAMPLES TAKEN " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#8 @25 " ENTER YEAR OF INTEREST:" +2 YR 4 ATTR=HIGHLIGHT
#9 @25 " FULL YEAR EX: (2000)"
#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
;
DATA BIO;
SET IN.BIO2_&DAT;
proc sort data=BIO nodupkey out=t (keep=SPECIAL area year month day time station gear);
by SPECIAL area month day time station gear;
proc freq;
by SPECIAL area;
table gear*month / out=t1 noprint;
proc tabulate data=t1 missing;
TITLE1 'FINFISH PROGRAM SAMPLES';
TITLE2 "FOR &YR";
class SPECIAL MONTH area gear;
var count;
table SPECIAL="*gear=",MONTH=' ' ALL,(area ALL)*count='SAMPLES TAKEN'*SUM=' '*f=7.
/ box='MONTH' rts=8;
format gear gear. MONTH MON. SPECIAL SPECIAL.;
run;
;
%ABT;;
```

```

%MEND WIN;
%WIN
Finfish Summary 3: Catch Summary
OPTIONS LS=78 PS=60 NODATE;
LIBNAME M 'MAINMAST:.';
LIBNAME LIBRARY 'FORMATS:.';
LIBNAME IN1 'biomain:.';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
  #1 @25 " FINFISH MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
  #2 @25 " ----- " ATTR=HIGHLIGHT
  #3 @25 "  CATCH SUMMARY ROUTINE " ATTR=HIGHLIGHT
  #4 @25 "  ----- " ATTR=HIGHLIGHT
  #6 @26 "ENTER COASTAL STUDY AREA: " +4 AR 1 ATTR=HIGHLIGHT
  #7 @26 "ENTER YEAR OF INTEREST:  " +3 YR 4 ATTR=HIGHLIGHT
  #8 @26 "FULL YEAR EX: (2000)"
  #9 @26 "ENTER MONTH OF INTEREST: " +4 MON 2 ATTR=HIGHLIGHT
  #10 @26 "ENTER STATION OF INTEREST:" +2 STA 5 ATTR=HIGHLIGHT
  #11 @26 "ENTER GEAR OF INTEREST:  " +2 GR 3 ATTR=HIGHLIGHT
  #13 @20 "OPTIONS FOR THE FIELDS (MONTH,STATION,GEAR)" ATTR=HIGHLIGHT
  #14 @20 "1) ENTER A 'C' IN A FIELD TO COMBINE SAMPLES" ATTR=HIGHLIGHT
  #15 @20 "2) ENTER AN 'E' IN A FIELD FOR EACH SAMPLE" ATTR=HIGHLIGHT
  #16 @20 "3) OR ENTER THE ACTUAL NUMBER FOR THAT FIELD" ATTR=HIGHLIGHT
  #20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
  DATA BIOFIN ;
  SET IN1.BIO2_&DAT;
  TAXA1=TAXA;
  IF AREA=&AR AND TAXA NE 2000;
;
%IF %UPCASE(&MON) EQ E %THEN %GOTO SKIPMON;
%ELSE %IF %UPCASE(&MON) EQ C %THEN %DO;
  DATA BIOFIN;
  SET BIOFIN;
  MONTH=99;
  RUN;
%END;

```

```

%ELSE %DO;
  DATA BIOFIN;
  SET BIOFIN;
  IF MONTH=&MON;
  RUN;
%END;
%SKIPMON;;
;
%IF %UPCASE(&STA) EQ E %THEN %GOTO SKIPSTA;
%ELSE %IF %UPCASE(&STA) EQ C %THEN %DO;
  DATA BIOFIN;
  SET BIOFIN;
  STATION=99999;
  RUN;
%END;
%ELSE %DO;
  DATA BIOFIN;
  SET BIOFIN;
  IF STATION=&STA;
  RUN;
%END;
%SKIPSTA;;
;
%IF %UPCASE(&GR) EQ E %THEN %GOTO SKIPGR;
%ELSE %IF %UPCASE(&GR) EQ C %THEN %DO;
  DATA BIOFIN;
  SET BIOFIN;
  GEAR=9999;
  RUN;
%END;
%ELSE %DO;
  DATA BIOFIN;
  SET BIOFIN;
  IF GEAR=&GR;
  RUN;
%END;
%SKIPGR;;
;
PROC FORMAT;
VALUE STA
99999='COMBINED';
PROC SORT DATA=BIOFIN NODUPKEY;

```

```

BY AREA YEAR MONTH DAY TIME STATION GEAR TAXA;
PROC SORT;
BY AREA STATION;
DATA MASTER (KEEP=AREA STATION STA_NAME);
SET M.MASTER;
IF PROJECT=2;
PROC SORT;
BY AREA STATION;
DATA TEST;
MERGE BIOFIN MASTER;
BY AREA STATION;
IF MONTH NE .;
PROC TABULATE DATA=TEST NOSEPS;
TITLE1 'MARINE FISHERIES FINFISH PROGRAM SUMMARY';
TITLE2 'CATCH OF FINFISH';
CLASS AREA YEAR MONTH STATION /* STA_NAME */ GEAR TAXA TAXA1;
VAR T_NUM;
TABLE AREA='AREA='*YEAR='YEAR='*MONTH='MONTH='*STATION='STATION='*
/* STA_NAME='STATION NAME='* */
GEAR='GEAR=',TAXA=""*TAXA1=",T_NUM='CATCH'*SUM=""*F=COMMA16.
/ RTS=60 CONDENSE BOX=TAXA;
FORMAT TAXA SP_COM. TAXA1 SP_SCI. MONTH L_MON. GEAR GEAR. STATION STA.;
RUN;
%ABT;;
%MEND WIN;
%WIN

```

Biofin Summary 1: Basin Tally

```
OPTIONS LS=132 PS=60;
```

```
libname library 'sas1:[users.marine_user.prod.research]';
```

```
LIBNAME OUT 'sas1:[users.kasprzak_mm.biosamp]';
```

```
LIBNAME CHK 'SAS1:[USERS.KASPRZAK_MM.TT_FIN.SAS_DATA]';
```

```
;
```

```
%macro win ;
```

```
%LET C=N;%LET CHOICE=N;
```

```
%WINDOW ENTRY
```

```
#3 @24 " SELECTION WINDOW "
```

```
#6 @24 " AGENT:" +2 AG 4 ATTR=UNDERLINE
```

```
#8 @24 " YEAR:" +2 YER 4 ATTR=UNDERLINE
```

```
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
```

```
;
```

```
%RETRY;;
```

```
%DISPLAY ENTRY;
```

```
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
```

```
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
```

```
%LET YR=%SUBSTR(&YER,3,2);
```

```
DATA BIOTLY;
```

```
length intid $4;
```

```
SET library.smpmas&YR;
```

```
if month in (1 2) then wave=1;
```

```
if month in (3 4) then wave=2;
```

```
if month in (5 6) then wave=3;
```

```
if month in (7 8) then wave=4;
```

```
if month in (9 10) then wave=5;
```

```
if month in (11 12) then wave=6;
```

```
intid=put(int_id,z4.);
```

```
IF &AG=9999 THEN DO;
```

```
IF YEAR=&YER THEN OUTPUT BIOTLY;
```

```
END;
```

```
IF &AG NE 9999 THEN DO;
```

```
IF INT_ID=&AG AND YEAR=&YER THEN OUTPUT BIOTLY;
```

```
END;
```

```
format name1 name2 name3 $species. site $stename. intid $int_id.;
```

```
drop name2 name3;
```

```
RUN;
```

```
data biotly2 (keep=intid species name1 aget1 len1 wave csa
```

```

stsamp cntysamp gear mode month day year SITE);
set biotly;
array aget1_[30] $ aget1_1-aget1_30;
array len1_[30] len1_1-len1_30;
yr=put(year,z4.);
mo=put(month,z2.);
dy=put(day,z2.);
date=yr || mo || dy;
;
;
;
do x=1 to 30;
  len1=len1_[x];
  AGET1=AGET1_[x];
  if len1 GT 0 then OUTPUT BIOTLY2;
end;
run;

proc sort data=biotly2;
by year month day MODE species intid aget1 len1 stsamp cntysamp;
run;

proc means n min max data=biotly2 NOPRINT;
by year month day mode species intid;
var aget1 len1;
OUTPUT OUT=BIOTLY3 N=NUM_SETS NUM_LEN
      MIN=TAG_LOW
      MAX=TAG_HI;
run;

PROC SORT DATA=BIOTLY2 NODUPKEY;
BY year month day INTID MODE SPECIES gear;
RUN;

PROC SORT DATA=BIOTLY3;
BY year month day INTID MODE SPECIES;

DATA SAMPTLY;
MERGE BIOTLY2 BIOTLY3;
BY year month day INTID MODE SPECIES;
DROP _FREQ_ _TYPE_ AGET1 LEN1;
RUN;

```

```

PROC SORT DATA=samptly;
BY csa intid species mode;
RUN;
proc tabulate data=samptly;
format name1 $species. intid $int_id. site $stename.;
class SITE csa intid species name1 wave mode;
var num_len num_sets;
table INTID='INTERVIEWER='*csa='AREA=',NAME1='SPECIES'*SITE,(WAVE
ALL='TOTAL')*(num_SETS='OTO'*SUM=""*F=5. num_LEN='LEN'*SUM=""*F=5.)
/ RTS=40 ;
/* keylabel sum="TOTAL";
label num_len="LENGTHS" num_sets="OTOLITHS" name1="COMMON NAME"
intid='INTERVIEWER';
*/
title "Age and Growth Sampling Tallies";
run;
%ABT;;
%MEND WIN;
%WIN

```

Biofin Summary 2: Biofin Interviewer Tally

```
OPTIONS LS=132 PS=60;
libname library 'sas1:[users.marine_user.prod.research]';
LIBNAME OUT 'sas1:[users.kasprzak_mm.biosamp]';
LIBNAME CHK 'SAS1:[USERS.KASPRZAK_MM.TT_FIN.SAS_DATA]';
;
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
  #3 @24 " SELECTION WINDOW      "
  #8 @24 " YEAR: " +2 YER 4 ATTR=UNDERLINE
  #20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
;
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET YR=%SUBSTR(&YER,3,2);
DATA BIOTLY;
length intid $4;
SET library.smpmas&YR;
if month in (1 2) then wave=1;
if month in (3 4) then wave=2;
if month in (5 6) then wave=3;
if month in (7 8) then wave=4;
if month in (9 10) then wave=5;
if month in (11 12) then wave=6;
intid=put(int_id,z4.);
IF &AG=9999 THEN DO;
  IF YEAR=&YER THEN OUTPUT BIOTLY;
END;
IF &AG NE 9999 THEN DO;
  IF INT_ID=&AG AND YEAR=&YER THEN OUTPUT BIOTLY;
END;
format name1 name2 name3 $species. site $stename. intid $int_id.;
drop name2 name3;
RUN;

;
data biotly2 (keep=intid species name1 aget1 len1 wave csa
```

```

stsamp cntysamp gear mode month day year SITE);
set biotly;
array aget1_[30] $ aget1_1-aget1_30;
array len1_[30] len1_1-len1_30;
yr=put(year,z4.);
mo=put(month,z2.);
dy=put(day,z2.);
date=yr || mo || dy;
;
;
;
do x=1 to 30;
  len1=len1_[x];
  AGET1=AGET1_[x];
  if len1 GT 0 then OUTPUT BIOTLY2;
end;
run;

proc sort data=biotly2;
by year month day MODE species intid aget1 len1 stsamp cntysamp;
run;

proc means n min max data=biotly2 NOPRINT;
by year month day mode species intid;
var aget1 len1;
OUTPUT OUT=BIOTLY3 N=NUM_SETS NUM_LEN
      MIN=TAG_LOW
      MAX=TAG_HI;
run;

PROC SORT DATA=BIOTLY2 NODUPKEY;
BY year month day INTID MODE SPECIES gear;
RUN;

PROC SORT DATA=BIOTLY3;
BY year month day INTID MODE SPECIES;

DATA SAMPTLY;
MERGE BIOTLY2 BIOTLY3;
BY year month day INTID MODE SPECIES;
DROP _FREQ_ _TYPE_ AGET1 LEN1;
RUN;

```

```

PROC SORT DATA=samptly;
BY csa intid species mode;
RUN;
proc tabulate data=samptly;
format name1 $species. intid $int_id. site $stename.;
class SITE csa name1 wave mode;
var num_len num_sets;
table NAME1='SPECIES=',SITE*MODE*CSA='AREA',WAVE*(num_SETS='OTO'*SUM="*F=5.
num_LEN='LEN'*SUM="*F=5.)
/ RTS=50 CONDENSE;
/* keylabel sum="TOTAL";
label num_len="LENGTHS" num_sets="OTOLITHS" name1="COMMON NAME"
intid='INTERVIEWER';
*/
title "Age and Growth Sampling Tallies";
run;
%ABT;;
%MEND WIN;
%WIN

```

Biofin Summary 3: Species Tally

```
OPTIONS LS=79 PS=60;
libname library 'sas1:[users.marine_user.prod.research]';
LIBNAME OUT 'sas1:[users.kasprzak_mm.biosamp]';
LIBNAME CHK 'SAS1:[USERS.KASPRZAK_MM.TT_FIN.SAS_DATA]';
;
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
  #1 @25 " TALLY REPORT " ATTR=HIGHLIGHT
  #2 @25 " ----- " ATTR=HIGHLIGHT
  #8 @25 " ENTER YEAR OF INTEREST: " +2 YR 4 ATTR=HIGHLIGHT
  #9 @25 " FULL YEAR EX: (2000)"
  #20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
;
DATA BIOTLY;
length intid $4;
SET library.smpmas&DAT;
if month in (1 2) then wave=1;
if month in (3 4) then wave=2;
if month in (5 6) then wave=3;
if month in (7 8) then wave=4;
if month in (9 10) then wave=5;
if month in (11 12) then wave=6;
intid=put(int_id,z4.);
format name1 name2 name3 $species. site $stename. intid $int_id.;
drop name2 name3;
IF YEAR=&YR;
;
data biotly2 (keep=intid species name1 aget1 len1 wave csa
  stsamp cntysamp gear mode month day year SITE);
set biotly;
  array aget1_[30] $ aget1_1-aget1_30;
  array len1_[30] len1_1-len1_30;
  yr=put(year,z4.);
```

```

mo=put(month,z2.);
dy=put(day,z2.);
date=yr||mo||dy;
;
;
;
do x=1 to 30;
  len1=len1_[x];
  AGET1=AGET1_[x];
  if len1 GT 0 then OUTPUT BIOTLY2;
end;
run;

proc sort data=biotly2;
by year month day MODE species intid aget1 len1 stsamp cntysamp;
run;

proc means n min max data=biotly2 NOPRINT;
by year month day mode species intid;
var aget1 len1;
OUTPUT OUT=BIOTLY3 N=NUM_SETS NUM_LEN
      MIN=TAG_LOW
      MAX=TAG_HI;
run;

PROC SORT DATA=BIOTLY2 NODUPKEY;
BY year month day INTID MODE SPECIES gear;
RUN;

PROC SORT DATA=BIOTLY3;
BY year month day INTID MODE SPECIES;

DATA SAMPTLY;
MERGE BIOTLY2 BIOTLY3;
BY year month day INTID MODE SPECIES;
DROP _FREQ_ _TYPE_ AGET1 LEN1;
RUN;

PROC SORT DATA=samptly;
BY csa intid species mode;
RUN;

```

```

proc tabulate data=samptly;
format name1 $species. intid $int_id. site $stename.;
class YEAR SITE csa name1 wave mode;
var num_len num_sets;
table YEAR*NAME1='SPECIES=',(MODE*CSA='AREA' all='TOTAL'),(WAVE
ALL='TOTAL')*(num_SETS='OTO'*SUM="*F=5. num_LEN='LEN'*SUM="*F=5.)
/ RTS=12 CONDENSE;
/* keylabel sum="TOTAL";
label num_len="LENGTHS" num_sets="OTOLITHS" name1="COMMON NAME"
intid='INTERVIEWER';
*/
title "Age and Growth Sampling Tallies";
run;
%ABT;;
%MEND WIN;
%WIN

```

Biofin Summary 4: Tally Without Site

```
OPTIONS LS=132 PS=60;
libname library 'sas1:[users.marine_user.prod.research]';
LIBNAME OUT 'sas1:[users.kasprzak_mm.biosamp]';
LIBNAME CHK 'SAS1:[USERS.KASPRZAK_MM.TT_FIN.SAS_DATA]';
;
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
  #3 @24 " SELECTION WINDOW      "
  #8 @24 " YEAR: " +2 YER 4 ATTR=UNDERLINE
  #20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
;
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET YR=%SUBSTR(&YER,3,2);
DATA BIOTLY;
length intid $4;
SET library.smpmas&YR;
if month in (1 2) then wave=1;
if month in (3 4) then wave=2;
if month in (5 6) then wave=3;
if month in (7 8) then wave=4;
if month in (9 10) then wave=5;
if month in (11 12) then wave=6;
intid=put(int_id,z4.);
if subarea gt " then ar=subarea;
else ar=primarea;
area=ar*1;
/* IF &AG=9999 THEN DO;*/
  IF YEAR=&YER THEN OUTPUT BIOTLY;
/* END;
IF &AG NE 9999 THEN DO;
  IF INT_ID=&AG AND YEAR=&YER THEN OUTPUT BIOTLY;
END; */
format name1 name2 name3 $species. site $stename. intid $int_id.;
drop name2 name3;
RUN;
```

```

;
data biotly2 (keep=intid species name1 aget1 len1 wave csa
stsamp cntysamp gear mode month day year area site);
set biotly;
array aget1_[30] $ aget1_1-aget1_30;
array len1_[30] len1_1-len1_30;
yr=put(year,z4.);
mo=put(month,z2.);
dy=put(day,z2.);
date=yr||mo||dy;
;
;
;
do x=1 to 30;
len1=len1_[x];
AGET1=AGET1_[x];
if len1 GT 0 then OUTPUT BIOTLY2;
end;
run;

proc sort data=biotly2;
by year month day MODE species area intid aget1 len1 stsamp cntysamp;
run;

proc means n min max data=biotly2 NOPRINT;
by year month day mode species area intid;
var aget1 len1;
OUTPUT OUT=BIOTLY3 N=NUM_SETS NUM_LEN
MIN=TAG_LOW
MAX=TAG_HI;
format area basin.;
run;

PROC SORT DATA=BIOTLY2 NODUPKEY;
BY year month day INTID MODE SPECIES gear;
RUN;

PROC SORT DATA=BIOTLY3;
BY year month day INTID MODE SPECIES;

DATA SAMPTLY;

```

```
MERGE BIOTLY2 BIOTLY3;
BY year month day INTID MODE SPECIES;
DROP _FREQ_ _TYPE_ _AGET1 LEN1;
RUN;
```

```
PROC SORT DATA=samptly;
BY csa intid species mode;
RUN;
```

```
proc tabulate data=samptly;
format name1 $species. intid $int_id. site $stename. area basin.;
class SITE csa name1 wave mode area;
var num_len num_sets;
table NAME1='SPECIES=',area*MODE,WAVE*(num_SETS='OTO'*SUM="*F=5.
num_LEN='LEN'*SUM="*F=5.)
/ RTS=50 CONDENSE;
/* keylabel sum="TOTAL";
label num_len="LENGTHS" num_sets="OTOLITHS" name1="COMMON NAME"
intid='INTERVIEWER';
*/
title "Age and Growth Sampling Tallies";
run;
%ABT;;
%MEND WIN;
%WIN
```

```

Oyster Summary 1: Catch/Effort
OPTIONS LS=78 PS=60 NODATE;
LIBNAME M 'MAINMAST:';
LIBNAME LIBRARY 'FORMATS:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " OYSTER MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " ANNUAL SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#8 @25 "ENTER AREA OF INTEREST:  " +4 AR 1 ATTR=HIGHLIGHT
#9 @25 "(EITHER ENTER AREA 1 TO 7 OR" ATTR=HIGHLIGHT
#10 @26 "ENTER AN (E) FOR EACH AREA)" ATTR=HIGHLIGHT
#12 @25 "ENTER YEAR OF INTEREST:  " +2 YR 4 ATTR=HIGHLIGHT
#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
;
LIBNAME IN 'biomain:';
proc format;
value cond
.='LIVE '
14='VALVE'
15='BOX '
;RUN;
DATA WATER (KEEP=AREA STATION WATER SPECIAL);
SET M.MASTER;
IF PROJECT=3;
PROC SORT;
BY SPECIAL AREA STATION;
RUN;
/**** CALCULATION OF EFFORT ****/
%IF %UPCASE(&AR) EQ E %THEN %GOTO JUMP1;
%ELSE %DO;
DATA BIO3;
SET IN.BIO3_&DAT;

```

```

IF AREA=&AR;
%END;
%GOTO JUMP2;
%JUMP1;;
DATA BIO3;
SET IN.BIO3_&DAT;
RUN;
%JUMP2;;
PROC SORT DATA=BIO3;
BY SPECIAL AREA STATION;
DATA BIO;
MERGE BIO3 WATER;
BY SPECIAL AREA STATION;
IF MONTH NE .;
;
PROC SORT DATA=BIO NODUPKEY OUT=T (KEEP=SPECIAL AREA MONTH DAY TIME GEAR GEAR_OBS
WATER);
BY SPECIAL AREA WATER MONTH GEAR GEAR_OBS STATION DAY TIME;
PROC FREQ;
BY SPECIAL AREA WATER MONTH ;
TABLE GEAR / NOPRINT OUT=T1;
DATA EFFORT (DROP=PERCENT COUNT);
SET T1;
SAMP=COUNT;
PROC SORT;
BY SPECIAL AREA MONTH WATER GEAR ;
/**** CALCULATION OF CATCH ****/
DATA TEMPO TEMPO1;
SET BIO;
IF TAXA=2134 AND GROUP IN (0,1,2,3,4) THEN GROUP=0;
IF TAXA=2134 AND GROUP NE . THEN OUTPUT TEMPO;
IF TAXA NE 2134 and taxa ne 2000 THEN OUTPUT TEMPO1;
DATA TEMPO;
SET TEMPO;
IF GROUP=0 THEN SIZE='SPAT';
IF GROUP >=5 AND GROUP <=14 THEN SIZE='1-3''';
IF GROUP >14 THEN SIZE='> 3''';
IF T_NUM > NUM_MEAS AND GROUP NE 0 AND SP_OBS =. THEN DO;
  FRACT=T_NUM/NUM_MEAS;
  NUM=ROUND((LEN_MEAS*FRACT),1);
  END;
IF T_NUM <= NUM_MEAS AND GROUP NE 0 AND SP_OBS =. THEN NUM=LEN_MEAS;

```

```

IF GROUP = 0 and gear ne 401 THEN NUM=LEN_MEAS;
IF GROUP = 0 and gear eq 401 THEN NUM=0;
IF GROUP NE 0 AND SP_OBS =15 THEN NUM=LEN_MEAS;
IF GROUP NE 0 AND SP_OBS =14 THEN NUM=LEN_MEAS/2;
PROC SORT DATA=TEMPO;
BY SPECIAL AREA MONTH WATER GEAR SIZE SP_OBS;
PROC MEANS SUM NOPRINT DATA=TEMPO;
BY SPECIAL AREA MONTH WATER GEAR SIZE SP_OBS;
VAR NUM;
OUTPUT OUT=T1 SUM=;
DATA CATCH ;
SET T1;
if sp_obs=14 then catch=round(NUM,1);
else if sp_obs ne 14 then CATCH=NUM;
PROC SORT;
BY SPECIAL AREA MONTH WATER GEAR ;
DATA TEST;
MERGE CATCH EFFORT;
BY SPECIAL AREA MONTH WATER GEAR ;
DATA TEST;
SET TEST;
IF CATCH=. THEN CATCH=0;
CE=ROUND((CATCH/SAMP),.1);
PROC SORT;
BY SPECIAL AREA WATER;
/**** CALCULATE CATCH NON OYSTER SPECIES *****/
PROC SORT DATA=TEMPO1;
BY SPECIAL AREA MONTH WATER GEAR TAXA;
PROC FREQ;
BY SPECIAL AREA MONTH WATER GEAR;
TABLE TAXA / NOPRINT OUT=T1;
WEIGHT T_NUM;
DATA CATCH (DROP=PERCENT COUNT);
SET T1;
CATCH=COUNT;
PROC SORT;
BY SPECIAL AREA MONTH WATER GEAR;
DATA TEST1;
MERGE CATCH EFFORT;
BY SPECIAL AREA MONTH WATER GEAR;
IF MONTH NE .;
DATA TEST1;

```

```

SET TEST1;
IF CATCH=. THEN CATCH=0;
CE=ROUND((CATCH/SAMP),.1);
IF TAXA NE . THEN OUTPUT TEST1;
PROC SORT;
BY SPECIAL AREA WATER;
proc tabulate data=TEST MISSING;
TITLE1 'OYSTER SAMPLES';
TITLE2 "CATCH AND EFFORT OF OYSTERS FOR &YR BY AREA";
  class SPECIAL AREA WATER GEAR MONTH SP_OBS SIZE;
  var CATCH SAMP CE;
  table SPECIAL*AREA='AREA='*WATER='WATER BODY='*GEAR='GEAR=',MONTH=' '*SIZE=' ',SP_OBS='
'*
      (CATCH*MEAN=' '*F=COMMA6. SAMP*MEAN=' '*F=COMMA6. CE*MEAN=' '*F=6.1)
/ BOX=MONTH RTS=12;
footnote 'NOTE - IF SPAT=0 IN SQARE METER SAMPLES THEN SPAT WAS PRESENT BUT NOT COUNTED';
  table SPECIAL*AREA='AREA='*WATER='WATER BODY='*GEAR='GEAR=',MONTH=' '*SIZE=' ',SP_OBS='
'*
      CE*(MEAN*F=6.1 PCTSUM<SIZE>=% SIZE'*F=6.2 PCTSUM<SP_OBS>=% COND'*F=6.2)
/ BOX=MONTH RTS=12 CONDENSE;
FORMAT SPECIAL SPECIAL. gear gear. SP_OBS COND. MONTH S_MON. WATER S_WATER.;
proc tabulate data=TEST1;
TITLE1 'OYSTER SAMPLES';
TITLE2 "CATCH AND EFFORT OF NON-OYSTERS FOR &YR BY AREA";
  class SPECIAL AREA WATER GEAR MONTH TAXA;
  var CATCH SAMP CE;
  table SPECIAL*AREA='AREA='*WATER='WATER BODY='*GEAR='GEAR=',MONTH=' ',TAXA=' '*
      (CATCH*MEAN=' '*F=COMMA6. SAMP*MEAN=' '*F=COMMA6. CE*MEAN=' '*F=6.1)
/ BOX=MONTH RTS=12 CONDENSE;
FORMAT SPECIAL SPECIAL. gear gear. MONTH S_MON. TAXA SP_NUM. WATER S_WATER.;
run;
%ABT;;
%MEND WIN;
%WIN

```

```

Oyster Summary 2: Samples Taken
OPTIONS LS=78 PS=60 NODATE;
libname IN 'BIOMAIN:';
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " OYSTER MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " MONTHLY SAMPLES TAKEN " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#8 @25 " ENTER YEAR OF INTEREST:" +2 YR 4 ATTR=HIGHLIGHT
#9 @25 " FULL YEAR EX: (2000) "
#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
;
DATA BIO;
SET IN.BIO3_&DAT;
proc sort data=BIO nodupkey out=t (keep=SPECIAL area year month day time station gear gear_obs);
by SPECIAL area month day time station gear gear_obs;
proc freq;
by SPECIAL area;
table gear*month / out=t1 noprint;
proc tabulate data=t1 missing;
TITLE1 'OYSTER PROGRAM SAMPLES';
TITLE2 "FOR &YR";
class SPECIAL MONTH area gear;
var count;
table SPECIAL*gear,MONTH=' ' ALL,(area ALL)*count='SAMPLES TAKEN'*SUM=' '*f=8.
/ box='MONTH' rts=10;
format gear gear. MONTH MON. SPECIAL SPECIAL.;
run;
;
%ABT;;
%MEND WIN;

```

%WIN

Oyster Summary 3: Catch Per Station

OPTIONS LS=78 PS=60 NODATE;

LIBNAME M 'MAINMAST:';

LIBNAME LIBRARY 'FORMATS:';

%macro win ;

%LET C=N;%LET CHOICE=N;

%WINDOW ENTRY

#1 @25 " OYSTER MANAGEMENT PROGRAM " ATTR=HIGHLIGHT

#2 @25 " ----- " ATTR=HIGHLIGHT

#3 @25 " ANNUAL SUMMARY ROUTINE " ATTR=HIGHLIGHT

#4 @25 " ----- " ATTR=HIGHLIGHT

#8 @25 "ENTER AREA OF INTEREST: " +4 AR 1 ATTR=HIGHLIGHT

#9 @25 "(EITHER ENTER AREA 1 TO 7 OR" ATTR=HIGHLIGHT

#10 @26 "ENTER AN (E) FOR EACH AREA)" ATTR=HIGHLIGHT

#12 @25 "ENTER YEAR OF INTEREST: " +2 YR 4 ATTR=HIGHLIGHT

#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT

%RETRY;;

%DISPLAY ENTRY;

%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;

%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;

%LET DAT=%SUBSTR(&YR,3,2);

;

LIBNAME IN 'biomain:';

proc format;

value cond

.= 'LIVE '

14= 'VALVE'

15= 'BOX '

;RUN;

DATA WATER (KEEP=AREA STATION WATER SPECIAL);

SET M.MASTER;

IF PROJECT=3;

PROC SORT;

BY SPECIAL AREA STATION;

RUN;

/* ** * CALCULATION OF EFFORT * ** */

%IF %UPCASE(&AR) EQ E %THEN %GOTO JUMP1;

%ELSE %DO;

DATA BIO3;

SET IN.BIO3_&DAT;

```

IF AREA=&AR;
%END;
%GOTO JUMP2;
%JUMP1;;
DATA BIO3;
SET IN.BIO3_&DAT;
RUN;
%JUMP2;;
PROC SORT DATA=BIO3;
BY SPECIAL AREA STATION;
DATA BIO;
MERGE BIO3 WATER;
BY SPECIAL AREA STATION;
IF MONTH NE .;
;
PROC SORT DATA=BIO NODUPKEY OUT=T (KEEP=SPECIAL AREA STATION MONTH DAY TIME GEAR
GEAR_OBS WATER);
BY SPECIAL AREA STATION WATER MONTH GEAR GEAR_OBS DAY TIME;
PROC FREQ;
BY SPECIAL AREA STATION WATER MONTH ;
TABLE GEAR / NOPRINT OUT=T1;
DATA EFFORT (DROP=PERCENT COUNT);
SET T1;
SAMP=COUNT;
PROC SORT;
BY SPECIAL AREA STATION MONTH WATER GEAR ;
/**** CALCULATION OF CATCH ****/
DATA TEMPO TEMPO1;
SET BIO;
IF TAXA=2134 AND GROUP IN (0,1,2,3,4) THEN GROUP=0;
IF TAXA=2134 AND GROUP NE . THEN OUTPUT TEMPO;
IF TAXA NE 2134 and taxa ne 2000 THEN OUTPUT TEMPO1;
DATA TEMPO;
SET TEMPO;
IF GROUP=0 THEN SIZE='SPAT';
IF GROUP >=5 AND GROUP <=14 THEN SIZE='1-3''';
IF GROUP >14 THEN SIZE='> 3''';
IF T_NUM > NUM_MEAS AND GROUP NE 0 AND SP_OBS =. THEN DO;
  FRACT=T_NUM/NUM_MEAS;
  NUM=ROUND((LEN_MEAS*FRACT),1);
  END;
IF T_NUM <= NUM_MEAS AND GROUP NE 0 AND SP_OBS =. THEN NUM=LEN_MEAS;

```

```

IF GROUP = 0 and gear ne 401 THEN NUM=LEN_MEAS;
IF GROUP = 0 and gear eq 401 THEN NUM=0;
IF GROUP NE 0 AND SP_OBS =15 THEN NUM=LEN_MEAS;
IF GROUP NE 0 AND SP_OBS =14 THEN NUM=LEN_MEAS/2;
PROC SORT DATA=TEMPO;
BY SPECIAL AREA STATION MONTH WATER GEAR SIZE SP_OBS;
PROC MEANS SUM NOPRINT DATA=TEMPO;
BY SPECIAL AREA STATION MONTH WATER GEAR SIZE SP_OBS;
VAR NUM;
OUTPUT OUT=T1 SUM=;
DATA CATCH ;
SET T1;
if sp_obs=14 then catch=round(NUM,1);
else if sp_obs ne 14 then CATCH=NUM;
PROC SORT;
BY SPECIAL AREA STATION MONTH WATER GEAR ;
DATA TEST;
MERGE CATCH EFFORT;
BY SPECIAL AREA STATION MONTH WATER GEAR ;
DATA TEST;
SET TEST;
IF CATCH=. THEN CATCH=0;
CE=ROUND((CATCH/SAMP),.1);
PROC SORT;
BY SPECIAL AREA STATION WATER;
/**** CALCULATE CATCH NON OYSTER SPECIES *****/
PROC SORT DATA=TEMPO1;
BY SPECIAL AREA STATION MONTH WATER GEAR TAXA;
PROC FREQ;
BY SPECIAL AREA STATION MONTH WATER GEAR;
TABLE TAXA / NOPRINT OUT=T1;
WEIGHT T_NUM;
DATA CATCH (DROP=PERCENT COUNT);
SET T1;
CATCH=COUNT;
PROC SORT;
BY SPECIAL AREA STATION MONTH WATER GEAR;
DATA TEST1;
MERGE CATCH EFFORT;
BY SPECIAL AREA STATION MONTH WATER GEAR;
IF MONTH NE .;
DATA TEST1;

```

```

SET TEST1;
IF CATCH=. THEN CATCH=0;
CE=ROUND((CATCH/SAMP),.1);
IF TAXA NE . THEN OUTPUT TEST1;
PROC SORT;
BY SPECIAL AREA STATION WATER;
proc tabulate data=TEST MISSING;
TITLE1 'OYSTER SAMPLES';
TITLE2 "CATCH AND EFFORT OF OYSTERS FOR &YR BY AREA";
  class SPECIAL AREA STATION WATER GEAR MONTH SP_OBS SIZE;
  var CATCH SAMP CE;
  table SPECIAL*AREA='AREA='*STATION='STATION='*WATER='WATER
BODY='*GEAR='GEAR=',MONTH=' '*SIZE=' ',SP_OBS=' '*
  (CATCH*MEAN=' '*F=COMMA6. SAMP*MEAN=' '*F=COMMA6. CE*MEAN=' '*F=6.1)
/ BOX=MONTH RTS=12 CONDENSE;
footnote 'NOTE - IF SPAT=0 IN SQARE METER SAMPLES THEN SPAT WAS PRESENT BUT NOT COUNTED';
FORMAT SPECIAL SPECIAL. gear gear. SP_OBS COND. MONTH S_MON. WATER S_WATER.;
/*
  table SPECIAL*AREA='AREA='*WATER='WATER BODY='*GEAR='GEAR=',MONTH=' '*SIZE=' ',SP_OBS='
  '*
  CE*(MEAN*F=6.1 PCTSUM<SIZE>=% SIZE'*F=6.2 PCTSUM<SP_OBS>=% COND'*F=6.2)
/ BOX=MONTH RTS=12 CONDENSE;
proc tabulate data=TEST1;
TITLE1 'OYSTER SAMPLES';
TITLE2 "CATCH AND EFFORT OF NON-OYSTERS FOR &YR BY AREA";
  class SPECIAL AREA STATION WATER GEAR MONTH TAXA;
  var CATCH SAMP CE;
  table SPECIAL*AREA='AREA='*STATION='STATION='*WATER='WATER
BODY='*GEAR='GEAR=',MONTH=' ',TAXA=' '*
  (CATCH*MEAN=' '*F=COMMA6. SAMP*MEAN=' '*F=COMMA6. CE*MEAN=' '*F=6.1)
/ BOX=MONTH RTS=12 CONDENSE;
FORMAT SPECIAL SPECIAL. gear gear. MONTH S_MON. TAXA SP_NUM. WATER S_WATER.;
run;
*/
%ABT;;
%MEND WIN;
%WIN

```

```

Oyster Summary 4: Catch/Effort Per Station
OPTIONS LS=78 PS=60 NODATE;
LIBNAME M 'MAINMAST:';
LIBNAME LIBRARY 'FORMATS:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " OYSTER MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " ANNUAL SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#8 @25 "ENTER AREA OF INTEREST:  " +4 AR 1 ATTR=HIGHLIGHT
#9 @25 "(EITHER ENTER AREA 1 TO 7 OR" ATTR=HIGHLIGHT
#10 @26 "ENTER AN (E) FOR EACH AREA)" ATTR=HIGHLIGHT
#12 @25 "ENTER YEAR OF INTEREST:  " +2 YR 4 ATTR=HIGHLIGHT
#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
;
LIBNAME IN 'biomain:';
proc format;
value cond
.='LIVE '
14='VALVE'
15='BOX '
;RUN;
DATA WATER (KEEP=AREA STATION WATER SPECIAL);
SET M.MASTER;
IF PROJECT=3;
PROC SORT;
BY SPECIAL AREA STATION;
RUN;
/**** CALCULATION OF EFFORT ****/
%IF %UPCASE(&AR) EQ E %THEN %GOTO JUMP1;
%ELSE %DO;
DATA BIO3;
SET IN.BIO3_&DAT;

```

```

IF AREA=&AR;
%END;
%GOTO JUMP2;
%JUMP1;;
DATA BIO3;
SET IN.BIO3_&DAT;
RUN;
%JUMP2;;
PROC SORT DATA=BIO3;
BY SPECIAL AREA STATION;
DATA BIO;
MERGE BIO3 WATER;
BY SPECIAL AREA STATION;
IF MONTH NE .;
;
PROC SORT DATA=BIO NODUPKEY OUT=T (KEEP=SPECIAL AREA STATION MONTH DAY TIME GEAR
GEAR_OBS WATER);
BY SPECIAL AREA STATION WATER MONTH GEAR GEAR_OBS DAY TIME;
PROC FREQ;
BY SPECIAL AREA STATION WATER MONTH ;
TABLE GEAR / NOPRINT OUT=T1;
DATA EFFORT (DROP=PERCENT COUNT);
SET T1;
SAMP=COUNT;
PROC SORT;
BY SPECIAL AREA STATION MONTH WATER GEAR ;
/**** CALCULATION OF CATCH ****/
DATA TEMPO TEMPO1;
SET BIO;
IF TAXA=2134 AND GROUP IN (0,1,2,3,4) THEN GROUP=0;
IF TAXA=2134 AND GROUP NE . THEN OUTPUT TEMPO;
IF TAXA NE 2134 and taxa ne 2000 THEN OUTPUT TEMPO1;
DATA TEMPO;
SET TEMPO;
IF GROUP=0 THEN SIZE='SPAT';
IF GROUP >=5 AND GROUP <=14 THEN SIZE='1-3''';
IF GROUP >14 THEN SIZE='> 3''';
IF T_NUM > NUM_MEAS AND GROUP NE 0 AND SP_OBS =. THEN DO;
  FRACT=T_NUM/NUM_MEAS;
  NUM=ROUND((LEN_MEAS*FRACT),1);
  END;
IF T_NUM <= NUM_MEAS AND GROUP NE 0 AND SP_OBS =. THEN NUM=LEN_MEAS;

```

```

IF GROUP = 0 and gear ne 401 THEN NUM=LEN_MEAS;
IF GROUP = 0 and gear eq 401 THEN NUM=0;
IF GROUP NE 0 AND SP_OBS =15 THEN NUM=LEN_MEAS;
IF GROUP NE 0 AND SP_OBS =14 THEN NUM=LEN_MEAS/2;
PROC SORT DATA=TEMPO;
BY SPECIAL AREA STATION MONTH WATER GEAR SIZE SP_OBS;
PROC MEANS SUM NOPRINT DATA=TEMPO;
BY SPECIAL AREA STATION MONTH WATER GEAR SIZE SP_OBS;
VAR NUM;
OUTPUT OUT=T1 SUM=;
DATA CATCH ;
SET T1;
if sp_obs=14 then catch=round(NUM,1);
else if sp_obs ne 14 then CATCH=NUM;
PROC SORT;
BY SPECIAL AREA STATION MONTH WATER GEAR ;
DATA TEST;
MERGE CATCH EFFORT;
BY SPECIAL AREA STATION MONTH WATER GEAR ;
DATA TEST;
SET TEST;
IF CATCH=. THEN CATCH=0;
CE=ROUND((CATCH/SAMP),.1);
PROC SORT;
BY SPECIAL AREA STATION WATER;
/**** CALCULATE CATCH NON OYSTER SPECIES *****/
PROC SORT DATA=TEMPO1;
BY SPECIAL AREA STATION MONTH WATER GEAR TAXA;
PROC FREQ;
BY SPECIAL AREA STATION MONTH WATER GEAR;
TABLE TAXA / NOPRINT OUT=T1;
WEIGHT T_NUM;
DATA CATCH (DROP=PERCENT COUNT);
SET T1;
CATCH=COUNT;
PROC SORT;
BY SPECIAL AREA STATION MONTH WATER GEAR;
DATA TEST1;
MERGE CATCH EFFORT;
BY SPECIAL AREA STATION MONTH WATER GEAR;
IF MONTH NE .;
DATA TEST1;

```

```

SET TEST1;
IF CATCH=. THEN CATCH=0;
CE=ROUND((CATCH/SAMP),.1);
IF TAXA NE . THEN OUTPUT TEST1;
PROC SORT;
BY SPECIAL AREA STATION WATER;
proc tabulate data=TEST MISSING;
TITLE1 'OYSTER SAMPLES';
TITLE2 "CATCH AND EFFORT OF OYSTERS FOR &YR BY AREA";
  class SPECIAL AREA STATION WATER GEAR MONTH SP_OBS SIZE;
  var CATCH SAMP CE;
  table SPECIAL*AREA='AREA='*STATION='STATION='*WATER='WATER
BODY='*GEAR='GEAR=',MONTH=' '*SIZE=' ',SP_OBS=' '*
  (CATCH*MEAN=' '*F=COMMA6. SAMP*MEAN=' '*F=COMMA6. CE*MEAN=' '*F=6.1)
/ BOX=MONTH RTS=12;
footnote 'NOTE - IF SPAT=0 IN SQARE METER SAMPLES THEN SPAT WAS PRESENT BUT NOT COUNTED';
  table SPECIAL*AREA='AREA='*STATION='STATION='*WATER='WATER
BODY='*GEAR='GEAR=',MONTH=' '*SIZE=' ',SP_OBS=' '*
  CE*(MEAN*F=6.1 PCTSUM<SIZE>=% SIZE'*F=6.2 PCTSUM<SP_OBS>=% COND'*F=6.2)
/ BOX=MONTH RTS=12 CONDENSE;
FORMAT SPECIAL SPECIAL. gear gear. SP_OBS COND. MONTH S_MON. WATER S_WATER.;
proc tabulate data=TEST1;
TITLE1 'OYSTER SAMPLES';
TITLE2 "CATCH AND EFFORT OF NON-OYSTERS FOR &YR BY AREA";
  class SPECIAL AREA STATION WATER GEAR MONTH TAXA;
  var CATCH SAMP CE;
  table SPECIAL*AREA='AREA='*STATION='STATION='*WATER='WATER
BODY='*GEAR='GEAR=',MONTH=' ',TAXA=' '*
  (CATCH*MEAN=' '*F=COMMA6. SAMP*MEAN=' '*F=COMMA6. CE*MEAN=' '*F=6.1)
/ BOX=MONTH RTS=12 CONDENSE;
FORMAT SPECIAL SPECIAL. gear gear. MONTH S_MON. TAXA SP_NUM. WATER S_WATER.;
run;
%ABT;;
%MEND WIN;
%WIN

```

Shrimp Summary 1: Weekly Summary

```
OPTIONS LS=78 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
LIBNAME IN1 'biomain:';
LIBNAME IN2 'phsmain:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " WEEKLY SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#6 @26 "ENTER COASTAL STUDY AREA:" +3 AR 1 ATTR=HIGHLIGHT
#8 @26 "ENTER WORK WEEK:      " +2 WW 2 ATTR=HIGHLIGHT
#10 @26 "ENTER YEAR OF INTEREST: " +2 YR 4 ATTR=HIGHLIGHT
#11 @26 "FULL YEAR EX: (2000)"
#13 @26 "CREATE SIZE CHART (Y OR N):" +2 CH 1 ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%DO I=&YR-4 %TO &YR;
%LET DAT=%SUBSTR(&I,3,2);
DATA BIOFILE (DROP=F_DAY DATE Y T D YR WY);
SET IN1.BIO1_&DAT;
F_DAY=.;
date=mdy(month,day,year);
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN f_day=mdy(1,1,year);
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
if date lt f_day then do;
year=year-1;
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
end;
```

```

wy=year;
ww=int((((date-f_day)/7)+1);
TAG=1;
IF AREA=&AR AND WW=&WW;
;
DATA PHSFILE (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
SET IN2.PHS1_&DAT;
TAG=1;
IF AREA=&AR;
;
PROC APPEND BASE=BIOSHR DATA=BIOFILE;
APPEND BASE=PHSSHR DATA=PHSFILE;
RUN;
QUIT;
%END;
;
DATA MASTER;
SET M.MASTER;
PROC SORT;
BY PROJECT SPECIAL AREA STATION;
PROC SORT DATA=BIOSHR;
BY PROJECT SPECIAL AREA STATION;
DATA BIO;
MERGE BIOSHR MASTER;
BY PROJECT SPECIAL AREA STATION;
DATA BIOSHR;
SET BIO;
if area=2 and special=1 then special=.;
IF TAG=1;
PROC SORT DATA=PHSSHR;
BY PROJECT SPECIAL AREA STATION;
DATA PHS;
MERGE PHSSHR MASTER;
BY PROJECT SPECIAL AREA STATION;
DATA PHSSHR;
SET PHS;
if area=2 and special=1 then special=.;
IF TAG=1;
;
DATA TEMPO;
SET BIOSHR;

```

```

if taxa IN (2001,2002) THEN DO;
SIZE=(GROUP*LEN_INT)+(LEN_INT/2);
NUMBER=ROUND((T_NUM/NUM_MEAS*LEN_MEAS),1);
OUTPUT TEMPO;
END;
;
DATA SIZE1 (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA SIZE NUMBER);
SET TEMPO;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
PROC MEANS MEAN MIN MAX NOPRINT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
VAR SIZE;
WEIGHT NUMBER;
OUTPUT OUT=T MEAN=AVGSIZE MIN=MINSIZE MAX=MAXSIZE;
data SIZE (keep=PROJECT SPECIAL area YEAR gear SHORE ww TAXA AVGSIZE MINSIZE MAXSIZE);
set t;
;
proc sort data=TEMPO nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear taxa t_num WW);
by PROJECT SPECIAL area YEAR month day time station gear SHORE taxa;
proc sort;
by PROJECT SPECIAL area YEAR gear SHORE ww;
proc freq;
by PROJECT SPECIAL area YEAR gear SHORE ww;
table taxa / out=t1 noprint;
weight t_num;
data CATCH (keep=PROJECT SPECIAL area YEAR gear SHORE ww taxa cat);
set t1;
cat=count;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
;
proc sort data=BIOSHR nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear WW gear_obs);
by PROJECT SPECIAL area YEAR month day time station gear SHORE;
proc sort data=t;
by PROJECT SPECIAL area year GEAR SHORE WW;
proc freq;
by PROJECT SPECIAL area year GEAR;
table SHORE*ww / out=t1 noprint;
data EFFORT (keep=PROJECT SPECIAL SHORE area YEAR gear ww SAMP TAXA);

```

```

set t1;
SAMP=COUNT;
DO TAXA=2001 TO 2002;
OUTPUT EFFORT;
END;
;
PROC SORT DATA=PHSSHR;
  BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
PROC SORT DATA=T;
  BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
DATA PHS;
MERGE T PHSSHR;
  BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
PROC MEANS MEAN NOPRINT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
VAR SAL1 SAL3 TEMP_W1 TEMP_W3;
OUTPUT OUT=T MEAN=T_SAL B_SAL T_TEMP B_TEMP;
DATA PHS (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW T_SAL B_SAL T_TEMP B_TEMP);
SET T;
IF WW NE . AND GEAR NE .;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
;
data test1;
merge CATCH SIZE EFFORT;
  by PROJECT SPECIAL area YEAR gear SHORE ww TAXA;
data test;
merge test1 PHS;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
DATA TEST;
SET TEST;
if cat lt 1 and samp gt 0 then tce=0;
else TCE=ROUND((CAT/samp),.1);
RUN;
proc sort;
  by taxa gear shore descending year;
proc tabulate DATA=TEST MISSING format=8. order=data;
TITLE1 'SHRIMP PROGRAM WEEKLY SUMMARY';
TITLE2 "FOR AREA &AR WORK WEEK &WW BY YEAR" ;
class gear YEAR SHORE TAXA project special;

```

```

var TCE CAT SAMP avgSIZE minsize maxsize T_SAL B_SAL T_TEMP B_TEMP ;
table project*special*gear='GEAR='*SHORE='SHORE=',TAXA=' '(SAMP='SAMPLES'*SUM=' '*F=8.
T_SAL='TOP SALINITY'*SUM=' '*F=8.2
    B_SAL='BOT SALINITY'*SUM=' '*F=8.2 T_TEMP='TOP TEMP.'*SUM=' '*F=8.2 B_TEMP='BOT
TEMP.'*SUM=' '*F=8.2
    CAT='CATCH'*SUM=' '*F=COMMA8. TCE='C/E'*SUM=' '*f=8.2 AVGSIZE='AVG. SIZE'*SUM=' '*F=8.2
MINSIZE='MIN. SIZE'*SUM=' '*F=8.2
    MAXSIZE='MAX. SIZE'*SUM=' '*F=8.2),YEAR=' '
/ RTS=30 ROW=FLOAT printmiss;
format gear gear. TAXA SP_COM. PROJECT PROJ. SHORE SHORE.;
run;
%IF %UPCASE(&CH) EQ N %THEN %GOTO ABT;
DATA TEST;
SET SIZE1;
IF YEAR=&YR;
PROC SORT DATA=TEST;
BY special GEAR SHORE TAXA;
PROC CHART;
TITLE2 "FOR AREA &AR WORK WEEK &WW YEAR &YR" ;
label shore='SHORE';
BY special GEAR SHORE TAXA;
HBAR SIZE / SUMVAR=NUMBER MIDPOINTS=0 TO 200 BY 10 ;
format gear gear. TAXA SP_COM. SHORE SHORE.;
RUN;
%ABT;;
%MEND WIN;
%WIN

```

```

Shrimp Summary 2: Annual Summary
OPTIONS LS=78 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " ANNUAL SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#6 @25 "ENTER COASTAL STUDY AREA : " +5 AR 1 ATTR=HIGHLIGHT
#8 @25 "ENTER YEAR OF INTEREST:" +2 YR 4 ATTR=HIGHLIGHT
#9 @25 "FULL YEAR EX: (2000)"
#11 @25 "ENTER TAXA CODE : " +2 S 4 ATTR=HIGHLIGHT
#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
;
LIBNAME IN1 'biomain:';
DATA BIOSHR (DROP=F_DAY DATE Y T D YR WY);
SET IN1.BIO1_&DAT;
F_DAY=.;
date=mdy(month,day,year);
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN f_day=mdy(1,1,year);
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
if date lt f_day then do;
year=year-1;
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
end;
wy=year;
ww=int((((date-f_day)/7)+1);
TAG=1;

```

```

    IF AREA=&AR ;
PROC SORT;
    BY PROJECT SPECIAL AREA STATION;
;
LIBNAME IN2 'phsmain:';
    DATA PHSSHR (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
    SET IN2.PHS1_&DAT;
    TAG=1;
    IF AREA=&AR;
PROC SORT;
    BY PROJECT SPECIAL AREA STATION;
;
DATA MASTER;
    SET M.MASTER;
PROC SORT;
    BY PROJECT SPECIAL AREA STATION;
DATA BIO;
    MERGE BIOSHR MASTER;
    BY PROJECT SPECIAL AREA STATION;
DATA BIOSHR;
    SET BIO;
    IF TAG=1;
DATA PHS;
    MERGE PHSSHR MASTER;
    BY PROJECT SPECIAL AREA STATION;
DATA PHSSHR;
    SET PHS;
    IF TAG=1;
;
DATA TEMPO;
    SET BIOSHR;
    if taxa = &S THEN DO;
    SIZE=(GROUP*LEN_INT)+(LEN_INT/2);
    NUMBER=ROUND((T_NUM/NUM_MEAS*LEN_MEAS),1);
    OUTPUT TEMPO;
    END;
;
DATA NUM (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW NUMBER GROUP);
    SET TEMPO;
PROC SORT;
    BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;

```

```

proc freq;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
  table GROUP / out=t1 noprint;
  weight NUMBER;
data WWFREQ (keep=PROJECT SPECIAL area YEAR gear SHORE ww PERCENT NUM GROUP);
  set t1;
  NUM=count;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
;
DATA SIZE (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW SIZE number);
  SET TEMPO;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
PROC MEANS MEAN NOPRINT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
  VAR SIZE;
  weight number;
  OUTPUT OUT=T MEAN=;
data SIZE (keep=PROJECT SPECIAL area YEAR gear SHORE ww SIZE);
  set t;
;
proc sort data=TEMPO nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear taxa t_num WW);
  by PROJECT SPECIAL area YEAR month day time station gear SHORE taxa;
proc sort;
  by PROJECT SPECIAL area YEAR gear SHORE ww;
proc freq;
  by PROJECT SPECIAL area YEAR gear SHORE ww;
  table taxa / out=t1 noprint;
  weight t_num;
data CATCH (keep=PROJECT SPECIAL area YEAR gear SHORE ww taxa cat);
  set t1;
  cat=count;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
;
proc sort data=BIOSHR nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear WW gear_obs);
  by PROJECT SPECIAL area YEAR month day time station gear SHORE;
  data effort1 effort2;
  set t;

```

```

if gear_obs=1 then output effort1;
else output effort2;
proc sort data=effort1;
by PROJECT SPECIAL area year GEAR;
proc freq;
by PROJECT SPECIAL area year GEAR;
table SHORE*ww / out=t1 noprint;
data EFFORT1 (keep=PROJECT SPECIAL SHORE area YEAR gear ww SAMP1);
set t1;
SAMP1=COUNT;
proc sort data=effort2;
by PROJECT SPECIAL area year GEAR;
proc freq;
by PROJECT SPECIAL area year GEAR;
table SHORE*ww / out=t1 noprint;
data EFFORT2 (keep=PROJECT SPECIAL SHORE area YEAR gear ww SAMP2);
set t1;
SAMP2=COUNT;
data effort;
merge effort1 effort2;
by PROJECT SPECIAL area year gear SHORE ww;
;
PROC SORT DATA=PHSSHR;
BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
DATA PHS;
MERGE T PHSSHR;
BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
PROC MEANS MEAN NOPRINT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
VAR SAL1 SAL3 TEMP_W1 TEMP_W3;
OUTPUT OUT=T MEAN=T_SAL B_SAL T_TEMP B_TEMP;
DATA PHS (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW T_SAL B_SAL T_TEMP B_TEMP);
SET T;
IF WW NE . AND GEAR NE .;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
;
data test1;
merge CATCH SIZE WWFREQ;
by PROJECT SPECIAL area YEAR gear SHORE ww;

```

```

data test;
merge test1 effort PHS;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
DATA TEST;
SET TEST;
if samp1=. and samp2 ne . then tSAMP=samp2;
if samp2=. and samp1 ne . then tSAMP=samp1;
if samp2 ne . and samp1 ne . AND TAXA IN (2001,2002,2070,2071) then tSAMP=samp1+samp2;
if samp2 ne . and samp1 ne . AND TAXA NOT IN (2001,2002,2070,2071) then tSAMP=samp2;
if samp2=. and samp1 =. then tSAMP=.;
if cat lt 1 and tsamp gt 0 then tce=0;
else TCE=ROUND((CAT/Tsamp),.1);
gCE=ROUND((num/Tsamp),.1);
IF TAXA=. THEN TAXA=&S;
if ww lt 53 and ww gt 0;
;
proc tabulate missing;
TITLE1 'SHRIMP PROGRAM ANNUAL SUMMARY';
TITLE2 "FOR AREA &AR";
BY PROJECT SPECIAL;
LABEL PROJECT='PROJECT';
class ww gear YEAR GROUP SHORE TAXA;
var TCE GCE CAT tSAMP SIZE T_SAL B_SAL T_TEMP B_TEMP ;
table TAXA='TAXA='*gear='GEAR='*SHORE='SHORE=',ww=' ',YEAR*(tSAMP='SAMP'*MEAN=' '*F=5.
CAT*MEAN=' '*F=COMMA6. TCE='C/E'*MEAN=' '*f=6.1 SIZE*MEAN=' '*F=6.1
T_SAL*MEAN=' '*F=6.1 B_SAL*MEAN=' '*F=6.1 T_TEMP*MEAN=' '*f=6.1 B_TEMP*MEAN=' '*F=6.1)
/ box='WORK WEEK' rts=6 ;
table TAXA='TAXA='*gear='GEAR='*SHORE='SHORE=',group=' ',ww='WORK
WEEK'*GCE='C/E'*(MEAN*F=5.1 PCTSUM<GROUP>='PCT'*F=4.)
/ box='GROUP' rts=7;
format gear gear. TAXA SP_COM. PROJECT PROJ. SHORE SHORE.;
run;
%ABT;;
%MEND WIN;
%WIN

```

Shrimp Summary 3: Good/Bad Years

```
OPTIONS LS=78 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
LIBNAME IN1 'biomain:';
LIBNAME IN2 'phsmain:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%LOCAL YR GYR BYR;
%WINDOW ENTRY
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 "GOOD/BAD YEARS SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 "----- " ATTR=HIGHLIGHT
#6 @26 "ENTER COASTAL STUDY AREA:" +3 AR 1 ATTR=HIGHLIGHT
#8 @26 "ENTER YEAR OF INTEREST: " +2 YR 4 ATTR=HIGHLIGHT
#9 @26 "FULL YEAR EX: (2000)"
#10 @26 "ENTER GOOD YEAR:      " +2 GYR 4 ATTR=HIGHLIGHT
#12 @26 "ENTER BAD YEAR:       " +2 BYR 4 ATTR=HIGHLIGHT
#14 @26 "ENTER TAXA CODE:      " +2 SP 4 ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT1=%SUBSTR(&YR,3,2);
%LET DAT2=%SUBSTR(&GYR,3,2);
%LET DAT3=%SUBSTR(&BYR,3,2);
DATA BIOSHR (DROP=F_DAY DATE Y T D YR WY);
SET IN1.BIO1_&DAT1 IN1.BIO1_&DAT2 IN1.BIO1_&DAT3;
F_DAY=.;
date=mdy(month,day,year);
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN f_day=mdy(1,1,year);
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
if date lt f_day then do;
year=year-1;
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
```

```

if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
end;
wy=year;
ww=int(((date-f_day)/7)+1);
TAG=1;
IF AREA=&AR;
;
DATA PHSSHR (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
SET IN2.PHS1_&DAT1 IN2.PHS1_&DAT2 IN2.PHS1_&DAT3;
TAG=1;
IF AREA=&AR;
;
DATA MASTER;
SET M.MASTER;
PROC SORT;
BY PROJECT SPECIAL AREA STATION;
PROC SORT DATA=BIOSHR;
BY PROJECT SPECIAL AREA STATION;
DATA BIO;
MERGE BIOSHR MASTER;
BY PROJECT SPECIAL AREA STATION;
DATA BIOSHR;
SET BIO;
IF TAG=1;
PROC SORT DATA=PHSSHR;
BY PROJECT SPECIAL AREA STATION;
DATA PHS;
MERGE PHSSHR MASTER;
BY PROJECT SPECIAL AREA STATION;
DATA PHSSHR;
SET PHS;
IF TAG=1;
;
DATA TEMPO;
SET BIOSHR;
if taxa=&SP THEN DO;
SIZE=(GROUP*LEN_INT)+(LEN_INT/2);
NUMBER=ROUND((T_NUM/NUM_MEAS*LEN_MEAS),1);
OUTPUT TEMPO;
END;
;

```

```

DATA SIZE (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA SIZE NUMBER);
SET TEMPO;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
PROC MEANS MEAN MIN MAX NOPRINT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
VAR SIZE;
WEIGHT NUMBER;
OUTPUT OUT=T MEAN=AVGSIZE MIN=MINSIZE MAX=MAXSIZE;
data SIZE (keep=PROJECT SPECIAL area YEAR gear SHORE ww TAXA AVGSIZE MINSIZE MAXSIZE);
set t;
;
proc sort data=TEMPO nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear taxa t_num WW);
  by PROJECT SPECIAL area YEAR month day time station gear SHORE taxa;
proc sort;
  by PROJECT SPECIAL area YEAR gear SHORE ww;
proc freq;
  by PROJECT SPECIAL area YEAR gear SHORE ww;
table taxa / out=t1 noprint;
weight t_num;
data CATCH (keep=PROJECT SPECIAL area YEAR gear SHORE ww taxa cat);
set t1;
cat=count;
PROC SORT;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
;
proc sort data=BIOSHR nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear WW gear_obs);
  by PROJECT SPECIAL area YEAR month day time station gear SHORE;
proc sort data=t;
  by PROJECT SPECIAL area year GEAR SHORE WW;
proc freq;
  by PROJECT SPECIAL area year GEAR;
table SHORE*ww / out=t1 noprint;
data EFFORT (keep=PROJECT SPECIAL SHORE area YEAR gear ww SAMP);
set t1;
SAMP=COUNT;
;
PROC SORT DATA=PHSSHR;
  BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
PROC SORT DATA=T;

```

```

BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
DATA PHS;
MERGE T PHSSHR;
BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
PROC MEANS MEAN NOPRINT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
VAR SAL1 SAL3 TEMP_W1 TEMP_W3;
OUTPUT OUT=T MEAN=T_SAL B_SAL T_TEMP B_TEMP;
DATA PHS (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW T_SAL B_SAL T_TEMP B_TEMP);
SET T;
IF WW NE . AND GEAR NE .;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
;
data test1;
merge CATCH SIZE;
by PROJECT SPECIAL area YEAR gear SHORE ww TAXA;
data test;
merge test1 EFFORT PHS;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
DATA TEST;
SET TEST;
if cat lt 1 and samp gt 0 then tce=0;
else TCE=ROUND((CAT/samp),.1);
IF TAXA =. THEN TAXA=&SP;
RUN;
PROC SORT;
BY TAXA GEAR SHORE WW DESCENDING YEAR;
proc tabulate DATA=TEST MISSING FORMAT=5. ORDER=DATA;
TITLE1 'SHRIMP PROGRAM GOOD/BAD YEARS SUMMARY';
TITLE2 "FOR AREA &AR BY YEAR" ;
class gear YEAR SHORE TAXA WW;
var TCE CAT SAMP avgSIZE minsize maxsize T_SAL B_SAL T_TEMP B_TEMP ;
table TAXA=*gear='GEAR='*SHORE='SHORE=',WW=' ',YEAR=*(SAMP*SUM=*F=4.
CAT='CATCH'*SUM=*F=COMMA6. TCE='C/E'*SUM=*f=5.1 AVGSIZE='SIZE'*SUM=*F=5.)
/ RTS=4 ROW=FLOAT BOX=WW PRINTMISS;
table TAXA=*gear='GEAR='*SHORE='SHORE=',WW=' ',YEAR=*(T_SAL='TOP SAL'*SUM=*F=5.2
B_SAL='BOT SAL'*SUM=*F=5.2 T_TEMP='TOP TEMP'*SUM=*F=5.2 B_TEMP='BOT
TEMP'*SUM=*F=5.2)
/ RTS=4 ROW=FLOAT BOX=WW PRINTMISS;

```

```
format gear gear. TAXA SP_COM. PROJECT PROJ. SHORE SHORE.;  
run;  
%ABT;;  
%MEND WIN;  
%WIN
```

```

Shrimp Su OPTIONS LS=78 PS=60 NODATE noovp;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME M 'MAINMAST:';
LIBNAME IN1 'biomain:';
LIBNAME IN2 'phsmain:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " SIZE BY WORK WEEK " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#6 @26 "ENTER COASTAL STUDY AREA:" +5 AR 1 ATTR=HIGHLIGHT
#8 @26 "ENTER YEAR OF INTEREST: " +4 YR 4 ATTR=HIGHLIGHT
#10 @26 "ENTER TAXA OF INTEREST: " +2 SP 4 ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%if &sp gt 2002 %then %goto abt;
%if &sp lt 2001 %then %goto abt;
%LET DAT=%SUBSTR(&YR,3,2);
DATA BIOSHR (DROP=F_DAY DATE Y T D YR WY);
SET IN1.BIO1_&DAT;
F_DAY=.;
date=mdy(month,day,year);
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN f_day=mdy(1,1,year);
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
if date lt f_day then do;
year=year-1;
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
end;
wy=year;
ww=int((((date-f_day)/7)+1);
TAG=1;

```

```

IF AREA=&AR ;
IF AREA NE 2 AND SPECIAL GT " THEN DELETE;
;
DATA MASTER;
SET M.MASTER;
PROC SORT;
BY PROJECT SPECIAL AREA STATION;
PROC SORT DATA=BIOSHR;
BY PROJECT SPECIAL AREA STATION;
DATA BIO;
MERGE BIOSHR MASTER;
BY PROJECT SPECIAL AREA STATION;
DATA BIOSHR;
SET BIO;
IF TAG=1;
;
DATA TEMPO;
SET BIOSHR;
if taxa = &SP THEN DO;
SIZE=(GROUP*LEN_INT)+(LEN_INT/2);
NUMBER=ROUND((T_NUM/NUM_MEAS*LEN_MEAS),1);
OUTPUT TEMPO;
END;
;
DATA SIZE (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA SIZE NUMBER);
SET TEMPO;
IF SIZE NE .;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
PROC UNIVARIATE DATA=SIZE NOPRINT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW TAXA;
VAR SIZE;
WEIGHT NUMBER;
OUTPUT OUT=T MEDIAN=MEDSIZE MIN=MINSIZE MAX=MAXSIZE;
;
data SIZE (keep=PROJECT SPECIAL area YEAR gear SHORE ww TAXA MINSIZE MAXSIZE MEDSIZE);
set t;
IF TAXA=&SP;
PROC SORT DATA=SIZE;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA DESCENDING WW;
PROC SORT DATA=SIZE NODUPKEY OUT=SIZE2;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA;

```

```

DATA SIZE2 (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA X PSIZE);
SET SIZE2;
Y=WW+1;PSIZE=MEDSIZE;
IF TAXA=2001 AND GEAR=102 THEN DO;
DO X=Y TO 30 BY 1;
PSIZE+10;
OUTPUT SIZE2;
END;END;
IF TAXA=2002 AND GEAR=102 THEN DO;
DO X=Y TO 40 BY 1;
PSIZE+10;
OUTPUT SIZE2;
END;END;
RUN;
DATA SIZE2 (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA WW PSIZE);
SET SIZE2;
WW=X;
DATA SIZE1;
SET SIZE END=LAST;
if last then do;
IF TAXA=2001 THEN DO;
CALL symput('ct',86);
CALL symput('nl',10);
CALL symput('nh',30);
end;
IF TAXA=2002 THEN DO;
CALL symput('ct',89);
CALL symput('nl',20);
CALL symput('nh',40);
end;
end;
/*
data season;
set in1.season ;
if &ar in (1,2) then z=1;
if &ar in (3,4,5,6) then z=2;
if &ar=7 then z=3;
if year=&yr AND ZONE=Z;
DATA SEASON;
SET SEASON END=LAST;
if last then do;
call symput('open',oww);

```

```

call symput('close',cww);
end;
*/
;
PROC SORT DATA=SIZE;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA WW;
PROC SORT DATA=SIZE2;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA WW;
DATA TEST;
  MERGE SIZE SIZE2;
  BY PROJECT SPECIAL AREA YEAR GEAR SHORE TAXA WW;
proc sort data=TEST;
  by taxa gear shore;
PROC PLOT data=TEST UNIFORM NOMISS NOLEGEND;
  BY TAXA GEAR SHORE;
  TITLE1 'SHRIMP MANAGEMENT SIZE PLOT PROGRAM';
  TITLE2 "FOR AREA &AR AND YEAR &YR";
  LABEL TAXA='TAXA';
  LABEL GEAR='GEAR';
  LABEL SHORE='SHORE';
  label ww='WORK WEEK';
  LABEL MEDSIZE='SIZE mm';
  PLOT MEDSIZE*WW='M' MINSIZE*WW='S' MAXSIZE*WW='L' PSIZE*WW='P'
    / haxis=&NL to &NH by 1 VAXIS=10 TO 150 BY 20 vref=&ct OVERLAY;
  FORMAT TAXA SP_COM. GEAR GEAR. SHORE SHORE.;
  FOOTNOTE1 '(M)=MEDIAN SIZE, (S)=MINIMUM SIZE, (L)=MAXIMUM SIZE, (-)=100 COUNT' ;
  FOOTNOTE2 "({})=BROWN SHRIMP OPEN AND CLOSE SEASON";
  FOOTNOTE3 '(P)=PREDICTED GROWTH AT 10 mm/week';
RUN;
QUIT;
%ABT;;
%MEND WIN;
%WINmmary 4: Size Plot By Work Week

```

```

Shrimp Summary 5: Year/Average
OPTIONS LS=132 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:.';
LIBNAME M 'MAINMAST:.';
LIBNAME IN1 'biomain:.';
LIBNAME IN2 'phsmain:.';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 " YEAR/AVERAGE SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#6 @26 "ENTER COASTAL STUDY AREA:" +5 AR 1 ATTR=HIGHLIGHT
#8 @26 "ENTER YEAR OF INTEREST: " +4 YR 4 ATTR=HIGHLIGHT
#10 @26 "ENTER YEARS FOR AVERAGE: " +4 BYR 4 ATTR=HIGHLIGHT
#10 @60 "-" +2 EYR 4 ATTR=HIGHLIGHT
#11 @26 "FULL YEAR EX: (2000)"
#13 @26 "ENTER TAXA OF INTEREST: " +2 S 4 ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT1=%SUBSTR(&YR,3,2);
DATA BIOSHR ;
SET IN1.BIO1_&DAT1;
TAG=1;
IF AREA=&AR ;
;
DATA PHSSHR (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
SET IN2.PHS1_&DAT1;
TAG=1;
IF AREA=&AR;
;
%DO I=&BYR %TO &EYR;
%LET DAT2=%SUBSTR(&I,3,2);
DATA BIOFILE ;
SET IN1.BIO1_&DAT2;
TAG=1;

```

```

    IF AREA=&AR ;
;
    DATA PHSFILE (KEEP=PROJECT SPECIAL tag AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
    SET IN2.PHS1_&DAT2;
    TAG=1;
    IF AREA=&AR;
;
    PROC APPEND BASE=BIOSHR DATA=BIOFILE;
        APPEND BASE=PHSSHR DATA=PHSFILE;
    RUN;
    QUIT;
%END;
;
    DATA BIOSHR (DROP=F_DAY DATE Y T D YR WY);
    SET BIOSHR;
    F_DAY=.;
    date=mdy(month,day,year);
    Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
    IF T = 1 THEN f_day=mdy(1,1,year);
    IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
    if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
    if date lt f_day then do;
    year=year-1;
    Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
    IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
    IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
    if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
    end;
    wy=year;
    ww=int((((date-f_day)/7)+1);
;
    PROC SORT;
    BY PROJECT SPECIAL AREA STATION;
    DATA MASTER;
    SET M.MASTER;
    PROC SORT;
    BY PROJECT SPECIAL AREA STATION;
    PROC SORT DATA=BIOSHR;
    BY PROJECT SPECIAL AREA STATION;
    DATA BIO;
    MERGE BIOSHR MASTER;

```

```

BY PROJECT SPECIAL AREA STATION;
DATA BIOSHR;
SET BIO;
IF TAG=1;
PROC SORT DATA=PHSSHR;
BY PROJECT SPECIAL AREA STATION;
DATA PHS;
MERGE PHSSHR MASTER;
BY PROJECT SPECIAL AREA STATION;
DATA PHSSHR;
SET PHS;
IF TAG=1;
;
DATA TEMPO;
SET BIOSHR;
if taxa = &S THEN DO;
SIZE=(GROUP*LEN_INT)+(LEN_INT/2);
NUMBER=ROUND((T_NUM/NUM_MEAS*LEN_MEAS),1);
OUTPUT TEMPO;
END;
;
DATA NUM (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW NUMBER GROUP);
SET TEMPO;
IF YEAR NE &YR THEN YEAR=9999;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
proc freq;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
table GROUP / out=t1 noprint;
weight NUMBER;
data WWFREQ (keep=PROJECT SPECIAL area YEAR gear SHORE ww PERCENT NUM GROUP);
set t1;
NUM=count;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
;
DATA SIZE (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW SIZE number);
SET TEMPO;
IF YEAR NE &YR THEN YEAR=9999;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
PROC MEANS MEAN NOPRINT;

```

```

BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
VAR SIZE;
weight number;
OUTPUT OUT=T MEAN=;
data SIZE (keep=PROJECT SPECIAL area YEAR gear SHORE ww SIZE);
set t;
;
proc sort data=TEMPO nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear taxa t_num WW);
by PROJECT SPECIAL area YEAR month day time station gear SHORE taxa;
DATA T;
SET T;
IF YEAR NE &YR THEN YEAR=9999;
proc sort;
by PROJECT SPECIAL area YEAR gear SHORE ww;
proc freq;
by PROJECT SPECIAL area YEAR gear SHORE ww;
table taxa / out=t1 noprint;
weight t_num;
data CATCH (keep=PROJECT SPECIAL area YEAR gear SHORE ww taxa cat);
set t1;
cat=count;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW ;
;
proc sort data=BIOSHR nodupkey out=t (keep=PROJECT SPECIAL SHORE area year month day time
station gear WW gear_obs);
by PROJECT SPECIAL area YEAR month day time station gear SHORE;
data effort1 effort2;
set t;
IF YEAR NE &YR THEN YEAR=9999;
if gear_obs=1 then output effort1;
else output effort2;
proc sort data=effort1;
by PROJECT SPECIAL area year GEAR;
proc freq;
by PROJECT SPECIAL area year GEAR;
table SHORE*ww / out=t1 noprint;
data EFFORT1 (keep=PROJECT SPECIAL SHORE area YEAR gear ww SAMP1);
set t1;
SAMP1=COUNT;
proc sort data=effort2;

```

```

by PROJECT SPECIAL area year GEAR;
proc freq;
by PROJECT SPECIAL area year GEAR;
table SHORE*ww / out=t1 noprint;
data EFFORT2 (keep=PROJECT SPECIAL SHORE area YEAR gear ww SAMP2);
set t1;
SAMP2=COUNT;
data effort;
merge effort1 effort2;
by PROJECT SPECIAL area year gear SHORE ww;
;
PROC SORT DATA=PHSSHR;
BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
DATA PHS;
MERGE T PHSSHR;
BY PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION;
DATA PHS;
SET PHS;
IF YEAR NE &YR THEN YEAR=9999;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
PROC MEANS MEAN NOPRINT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
VAR SAL1 SAL3 TEMP_W1 TEMP_W3;
OUTPUT OUT=T MEAN=T_SAL B_SAL T_TEMP B_TEMP;
DATA PHS (KEEP=PROJECT SPECIAL AREA YEAR GEAR SHORE WW T_SAL B_SAL T_TEMP B_TEMP);
SET T;
IF WW NE . AND GEAR NE .;
PROC SORT;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
;
data test1;
merge CATCH SIZE WWFREQ;
by PROJECT SPECIAL area YEAR gear SHORE ww;
data test;
merge test1 effort PHS;
BY PROJECT SPECIAL AREA YEAR GEAR SHORE WW;
DATA TEST;
SET TEST;
if samp1=. and samp2 ne . then tSAMP=samp2;
if samp2=. and samp1 ne . then tSAMP=samp1;
if samp2 ne . and samp1 ne . AND TAXA IN (2001,2002,2070,2071) then tSAMP=samp1+samp2;

```

```

if samp2 ne . and samp1 ne . AND TAXA NOT IN (2001,2002,2070,2071) then tSAMP=samp2;
if samp2=. and samp1 =. then tSAMP=.;
if cat lt 1 and tsamp gt 0 then tce=0;
else TCE=ROUND((CAT/Tsamp),.1);
gCE=ROUND((num/Tsamp),.1);
IF TAXA=. THEN TAXA=&S;
if ww lt 53 and ww gt 0;
;
PROC FORMAT;
VALUE YE
9999='AVERAGE';
proc tabulate DATA=test MISSING;
TITLE1 'SHRIMP PROGRAM YEAR/AVERAGE ANNUAL SUMMARY';
TITLE2 "FOR AREA &AR , &YR COMPARED TO &BYR - &EYR" ;
BY PROJECT SPECIAL;
LABEL PROJECT='PROJECT';
class ww gear YEAR GROUP SHORE TAXA;
var TCE GCE CAT tSAMP SIZE T_SAL B_SAL T_TEMP B_TEMP ;
table TAXA='TAXA='*gear='GEAR='*SHORE='SHORE=',ww=' ',YEAR="*(tSAMP='SAMP'*MEAN=' '*F=5.
CAT*MEAN=' '*F=COMMA6. TCE='C/E'*MEAN=' '*f=6.1 SIZE*MEAN=' '*F=6.1
T_SAL*MEAN=' '*F=6.1 B_SAL*MEAN=' '*F=6.1 T_TEMP*MEAN=' '*f=6.1 B_TEMP*MEAN=' '*F=6.1)
/ box='WORK WEEK' rts=6 ;
format gear gear. TAXA SP_COM. PROJECT PROJ. SHORE SHORE. YEAR YE.;
run;
%ABT;;
%MEND WIN;
%WIN

```

Shrimp Summary 6: Weekly Samples Taken

```
OPTIONS LS=78 PS=60 NODATE;
```

```
libname IN 'BIOMAIN:';
```

```
LIBNAME LIBRARY 'FORMATS:';
```

```
LIBNAME M 'MAINMAST:';
```

```
%macro win ;
```

```
%LET C=N;%LET CHOICE=N;
```

```
%WINDOW ENTRY
```

```
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
```

```
#2 @25 " ----- " ATTR=HIGHLIGHT
```

```
#3 @25 " WEEKLY SAMPLES TAKEN " ATTR=HIGHLIGHT
```

```
#4 @25 " ----- " ATTR=HIGHLIGHT
```

```
#8 @25 " ENTER YEAR OF INTEREST:" +2 YR 4 ATTR=HIGHLIGHT
```

```
#20 @15 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
```

```
%RETRY;;
```

```
%DISPLAY ENTRY;
```

```
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
```

```
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
```

```
%LET DAT=%SUBSTR(&YR,3,2);
```

```
;
```

```
DATA BIO;
```

```
SET IN.BIO1_&DAT;
```

```
proc sort data=bio nodupkey out=t (keep=SPECIAL area year month day time station gear);
```

```
by SPECIAL area month day time station gear;
```

```
data tempo ;
```

```
set t;
```

```
F_DAY=.;
```

```
date=mdy(month,day,year);
```

```
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
```

```
IF T = 1 THEN f_day=mdy(1,1,year);
```

```
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
```

```
if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
```

```
if date lt f_day then do;
```

```
year=year-1;
```

```
Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
```

```
IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
```

```
IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
```

```
if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
```

```
end;
```

```
wy=year;
```

```
ww=int(((date-f_day)/7)+1);
```

```

proc freq;
by SPECIAL area;
table gear*ww / out=t1 noprint;
PROC FORMAT;
VALUE SPECIAL
.='REGULAR '
1='CAERNARVON '
2='COMMERCIAL '
3='DAVIS POND '
4='PONTCHARTRAIN'
;
proc tabulate data=t1 missing;
TITLE1 'SHRIMP PROGRAM SAMPLES';
TITLE2 "FOR &YR";
class SPECIAL ww area gear;
var count;
table SPECIAL='SAMPLES ='*gear='GEAR =' ,ww=' ' ALL,(area ALL)*count='SAMPLES TAKEN'*SUM=' '*f=8.
/ box='WORK WEEK' rts=6;
format gear gear. SPECIAL SPECIAL.;
run;
;
%ABT;;
%MEND WIN;
%WIN

```

Shrimp Summary 7: Shrimp Catch Report

```
OPTIONS LS=78 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME IN1 'biomain:';
%macro win ;
%LET C=N;%LET CHOICE=N;
%WINDOW ENTRY
#1 @25 " SHRIMP MANAGEMENT PROGRAM " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#3 @25 "  CATCH SUMMARY ROUTINE " ATTR=HIGHLIGHT
#4 @25 " ----- " ATTR=HIGHLIGHT
#6 @26 "ENTER COASTAL STUDY AREA: " +4 AR 1 ATTR=HIGHLIGHT
#7 @26 "ENTER YEAR OF INTEREST: " +3 YR 4 ATTR=HIGHLIGHT
#8 @26 "FULL YEAR EX: (2000)"
#9 @26 "ENTER MONTH OF INTEREST: " +4 MON 2 ATTR=HIGHLIGHT
#10 @26 "ENTER STATION OF INTEREST:" +2 STA 5 ATTR=HIGHLIGHT
#11 @26 "ENTER GEAR OF INTEREST: " +2 GR 3 ATTR=HIGHLIGHT
#13 @20 "OPTIONS FOR THE FIELDS (MONTH,STATION,GEAR)" ATTR=HIGHLIGHT
#14 @20 "1) ENTER A 'C' IN A FIELD TO COMBINE SAMPLES" ATTR=HIGHLIGHT
#15 @20 "2) ENTER AN 'E' IN A FIELD FOR EACH SAMPLE" ATTR=HIGHLIGHT
#16 @20 "3) OR ENTER THE ACTUAL NUMBER FOR THAT FIELD" ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
%RETRY;;
%DISPLAY ENTRY;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
%LET DAT=%SUBSTR(&YR,3,2);
  DATA BIOFIN ;
  SET IN1.BIO1_&DAT;
  TAXA1=TAXA;
  IF AREA=&AR AND TAXA NE 2000;
;
%IF %UPCASE(&MON) EQ E %THEN %GOTO SKIPMON;
%ELSE %IF %UPCASE(&MON) EQ C %THEN %DO;
  DATA BIOFIN;
  SET BIOFIN;
  MONTH=99;
  RUN;
%END;
%ELSE %DO;
  DATA BIOFIN;
```

```

SET BIOFIN;
  IF MONTH=&MON;
    RUN;
  %END;
%SKIPMON;;
;
%IF %UPCASE(&STA) EQ E %THEN %GOTO SKIPSTA;
%ELSE %IF %UPCASE(&STA) EQ C %THEN %DO;
  DATA BIOFIN;
  SET BIOFIN;
  STATION=99999;
  RUN;
%END;
%ELSE %DO;
  DATA BIOFIN;
  SET BIOFIN;
  IF STATION=&STA;
  RUN;
%END;
%SKIPSTA;;
;
%IF %UPCASE(&GR) EQ E %THEN %GOTO SKIPGR;
%ELSE %IF %UPCASE(&GR) EQ C %THEN %DO;
  DATA BIOFIN;
  SET BIOFIN;
  GEAR=9999;
  RUN;
%END;
%ELSE %DO;
  DATA BIOFIN;
  SET BIOFIN;
  IF GEAR=&GR;
  RUN;
%END;
%SKIPGR;;
%ABT;;
%MEND WIN;
%WIN
;
PROC FORMAT;
  VALUE STA
  99999='COMBINED';

```

```

PROC SORT DATA=BIOFIN NODUPKEY;
  BY AREA YEAR MONTH DAY TIME STATION GEAR TAXA;
PROC TABULATE DATA=BIOFIN NOSEPS;
  TITLE1 'MARINE FISHERIES SHRIMP PROGRAM SUMMARY';
  CLASS AREA YEAR MONTH STATION GEAR TAXA TAXA1;
  VAR T_NUM;
  TABLE
AREA='AREA='*YEAR='YEAR='*MONTH='MONTH='*STATION='STATION='*GEAR='GEAR=',TAXA=""*TAXA1
='',T_NUM='CATCH'*SUM=""*F=COMMA16.
  / RTS=60 CONDENSE BOX=TAXA;
  FORMAT TAXA SP_COM. TAXA1 SP_SCI. MONTH L_MON. GEAR GEAR. STATION STA.;
RUN;

```

Physical Summary 1: Physical Data Report

```
OPTIONS LS=78 PS=60 NODATE;
LIBNAME LIBRARY 'FORMATS:';
LIBNAME IN 'PHSMAIN:';
LIBNAME M 'MAINMAST:';
%macro win ;
%LET C=N;%LET CHOICE=N;%LET MAR=C;%LET SHO=C;%LET S=I;
%WINDOW ENTRY
GROUP=G1
#1 @25 " PHYSICAL DATA SUMMARY ROUTINE " ATTR=HIGHLIGHT
#2 @25 " ----- " ATTR=HIGHLIGHT
#4 @26 "ENTER PROJECT NUMBER:  " +4 PJ 1 ATTR=HIGHLIGHT
#5 @26 "ENTER COASTAL STUDY AREA: " +4 AR 1 ATTR=HIGHLIGHT
#6 @26 "ENTER RANGE OF YEARS:  " +2 BYR 4 ATTR=HIGHLIGHT
#6 @59 "-" +2 EYR 4 ATTR=HIGHLIGHT
#7 @26 "FULL YEAR EX: (2000)"
#8 @26 "BY WW ENTER (W), MONTH (M)" +4 T 1 ATTR=HIGHLIGHT
#15 @15 "OPTIONS FOR THE FIELDS (MONTH/WW,STATION,MARSH,SHORE)" ATTR=HIGHLIGHT
#16 @18 "1) ENTER A 'C' IN A FIELD TO COMBINE SAMPLES" ATTR=HIGHLIGHT
#17 @18 "2) ENTER AN 'E' IN A FIELD FOR EACH SAMPLE" ATTR=HIGHLIGHT
#18 @18 "3) OR ENTER THE ACTUAL NUMBER FOR THAT FIELD" ATTR=HIGHLIGHT
GROUP=G2
#9 @26 "ENTER MONTH OF INTEREST: " +3 MON 2 ATTR=HIGHLIGHT
GROUP=G3
#9 @26 "ENTER WEEK OF INTEREST:  " +3 WW 2 ATTR=HIGHLIGHT
GROUP=G4
#10 @26 "ENTER STATION OF INTEREST:" +2 STA 5 ATTR=HIGHLIGHT
#11 @26 "ENTER MARSH OF INTEREST: " +4 MAR 1 ATTR=HIGHLIGHT
#12 @26 "ENTER SHORE OF INTEREST:  " +4 SHO 1 ATTR=HIGHLIGHT
#13 @26 "ST/FED (S) INSHORE/OFF (I)" +4 S 1 ATTR=HIGHLIGHT
#20 @16 "CONTINUE (Y-YES N-NO) ABORT (E-EXIT):" +2 C 1 ATTR=HIGHLIGHT
;
%RETRY;;
%DISPLAY ENTRY.G1;
%IF %UPCASE(&T) EQ M %THEN %DISPLAY ENTRY.G2;
%ELSE %IF %UPCASE(&T) EQ W %THEN %DISPLAY ENTRY.G3;
%ELSE %GOTO RETRY;
;
%DISPLAY ENTRY.G4;
%IF %UPCASE(&C) EQ E %THEN %GOTO ABT;
%ELSE %IF %UPCASE(&C) NE Y %THEN %GOTO RETRY;
```

```

;
%DO I=&BYR %TO &EYR;
%LET DAT=%SUBSTR(&I,3,2);
;
  DATA PHSFILE (KEEP=TAG PROJECT SPECIAL AREA YEAR MONTH DAY TIME STATION SAL1 SAL3
TEMP_W1 TEMP_W3);
  SET IN.PHS&PJ._&DAT;
  TAG=1;
  IF AREA=&AR;
;
  PROC APPEND BASE=PHS DATA=PHSFILE;
  RUN;
  QUIT;
%END;
;
  PROC SORT DATA=PHS;
  BY PROJECT SPECIAL AREA STATION;
;
  DATA MASTER (KEEP=PROJECT SPECIAL AREA STATION SHORE MARSH);
  SET M.MASTER;
  PROC SORT DATA=MASTER;
  BY PROJECT SPECIAL AREA STATION;
  DATA PHS;
  MERGE PHS MASTER;
  BY PROJECT SPECIAL AREA STATION;
  IF TAG=1;
;
%IF %UPCASE(&T) NE M %THEN %GOTO WW;
%IF %UPCASE(&MON) EQ E %THEN %GOTO SKIPMON;
%ELSE %IF %UPCASE(&MON) EQ C %THEN %DO;
  DATA PHS;
  SET PHS;
  MONTH=99;
  RUN;
%END;
%ELSE %DO;
  DATA PHS;
  SET PHS;
  IF MONTH=&MON;
  RUN;
%END;
%SKIPMON;;

```

```

%GOTO SKIPWW;
;
%WW:;
  DATA PHS (DROP=F_DAY DATE Y T D YR WY);
  SET PHS;
  F_DAY=.;
  date=mdy(month,day,year);
  Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
  IF T = 1 THEN f_day=mdy(1,1,year);
  IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;f_day=mdy(12,d,yr);END;
  if t > 4 then do;d=1+(8-t);f_day=mdy(1,d,year);end;
  if date lt f_day then do;
  year=year-1;
  Y=MDY(1,1,YEAR);T=WEEKDAY(Y);
  IF T = 1 THEN do;wy=year;f_day=mdy(1,1,year);end;
  IF T < 5 and t gt 1 THEN do;d=32-(t-1);yr=year-1;wy=yr;f_day=mdy(12,d,yr);END;
  if t > 4 then do;d=1+(8-t);wy=year;f_day=mdy(1,d,year);end;
  end;
  wy=year;
  ww=int(((date-f_day)/7)+1);
  RUN;
%IF %UPCASE(&WW) EQ E %THEN %GOTO SKIPWW;
%ELSE %IF %UPCASE(&WW) EQ C %THEN %DO;
  DATA PHS;
  SET PHS;
  WW=99;
  RUN;
%END;
%ELSE %DO;
  DATA PHS;
  SET PHS;
  IF WW=&WW;
  RUN;
%END;
%SKIPWW:;
  PROC FORMAT;
  VALUE WW
  99='COM';
;
%IF %UPCASE(&STA) EQ E %THEN %GOTO SKIPSTA;
%ELSE %IF %UPCASE(&STA) EQ C %THEN %DO;
  DATA PHS;

```

```

SET PHS;
  STATION=99999;
RUN;
%END;
%ELSE %DO;
  DATA PHS;
  SET PHS;
  IF STATION=&STA;
  RUN;
%END;
;
%SKIPSTA;;
  PROC FORMAT;
  VALUE STA
  99999='COMBINED';
;
%IF %UPCASE(&MAR) EQ E %THEN %GOTO SKIPMAR;
%IF %UPCASE(&MAR) EQ N %THEN %GOTO SKIPMAR;
%ELSE %IF %UPCASE(&MAR) EQ C %THEN %DO;
  DATA PHS;
  SET PHS;
  MARSH=9;
  RUN;
%END;
%ELSE %DO;
  DATA PHS;
  SET PHS;
  IF MARSH=&MAR;
  RUN;
%END;
%SKIPMAR;;
;
%IF %UPCASE(&SHO) EQ E AND %UPCASE(&S) EQ S %THEN %GOTO SKIPSHO;
%IF %UPCASE(&SHO) EQ N %THEN %GOTO SKIPSHO;
%ELSE %IF %UPCASE(&SHO) EQ E AND %UPCASE(&S) EQ I %THEN %DO;
  DATA PHS;
  SET PHS;
  IF SHORE=1 THEN SHORE=0;
  IF SHORE IN (2,3) THEN SHORE=9;
  RUN;
%END;
%ELSE %IF %UPCASE(&SHO) EQ C %THEN %DO;

```

```

DATA PHS;
SET PHS;
  SHORE=99;
RUN;
%END;
%ELSE %DO;
  DATA PHS;
  SET PHS;
  IF SHORE=&SHO;
  RUN;
%END;
%SKIPSHO;;
;
PROC SORT;
  BY YEAR;
DATA PHS;
SET PHS;
  IF SAL1 NE . OR SAL3 NE . OR TEMP_W1 NE . OR TEMP_W3 NE .;
%IF %UPCASE(&T) NE M %THEN %GOTO TABWW;
PROC TABULATE DATA=PHS;
  TITLE1 'MARINE FISHERIES PHYSICAL DATA SUMMARY';
  TITLE2 'MEAN SALINITY AND WATER TEMPERATURE';
  CLASS YEAR PROJECT AREA MONTH STATION MARSH SHORE;
  VAR SAL1 SAL3 TEMP_W1 TEMP_W3;
  TABLE
PROJECT='PROJECT=*AREA='AREA=*STATION='STATION=*MARSH='MARSH=*SHORE='SHORE=',YEAR='
'*MONTH=',
  (SAL1='TOP SALINITY'*MEAN='*F=11.2 SAL3='BOTTOM SALINITY'*MEAN='*F=11.2
  TEMP_W1='TOP TEMPERATURE'*MEAN='*F=11.2 TEMP_W3='BOTTOM
TEMPERATURE'*MEAN='*F=11.2)
  / RTS=12 CONDENSE BOX='YEAR/MONTH';
  FORMAT MONTH S_MON. STATION STA. PROJECT PROJ. MARSH MARSH. SHORE SHORE.;
RUN;
%GOTO ABT;
;
%TABWW;;
PROC TABULATE DATA=PHS;
  TITLE1 'MARINE FISHERIES PHYSICAL DATA SUMMARY';
  TITLE2 'MEAN SALINITY AND WATER TEMPERATURE';
  CLASS YEAR PROJECT AREA WW STATION MARSH SHORE;
  VAR SAL1 SAL3 TEMP_W1 TEMP_W3;

```

```
TABLE
PROJECT='PROJECT='*AREA='AREA='*STATION='STATION='*MARSH='MARSH='*SHORE='SHORE=',YEAR='
'*WW=',
    (SAL1='TOP SALINITY'*MEAN=' '*F=11.2 SAL3='BOTTOM SALINITY'*MEAN=' '*F=11.2
    TEMP_W1='TOP TEMPERATURE'*MEAN=' '*F=11.2 TEMP_W3='BOTTOM
TEMPERATURE'*MEAN=' '*F=11.2)
/ RTS=12 CONDENSE BOX='YEAR/WW';
FORMAT STATION STA. PROJECT PROJ. WW WW. MARSH MARSH. SHORE SHORE.;
RUN;
;
%ABT;;
%MEND WIN;
%WIN
```

Attachment II: Policy #62, "General Information Technology Security"

DEPARTMENT OF WILDLIFE AND FISHERIES

POLICY AND PROCEDURE MEMORANDUM # 62

EFFECTIVE DATE: April 23, 2008

SUBJECT: GENERAL INFORMATION TECHNOLOGY SECURITY

AUTHORIZATION: Robert Barham
Secretary

I. POLICY

It is the policy of the Department of Wildlife and Fisheries (LDWF) to secure its networks, computerized databases and data contained or transmitted therein.

II. PURPOSE

This policy will establish guidelines for employees to follow necessary to ensure the following:

- A. Confidentiality of proprietary data.
- B. System availability for critical business functions.
- C. Compliance with licensing agreements and other legal requirements.
- D. Maintenance of an overall effective workplace.

III. APPLICABILITY

This policy will apply to all LDWF employees and to all independent contractors and agents engaged in work on behalf of LDWF and / or using LDWF information systems.

IV. REQUIREMENTS

The following are required unless written exceptions are granted by the I.T. Director **and** Appointing Authority:

- A. Electronic Locking of Computers – Users are required to lock their computers when they are out of sight of their computer. This is accomplished by pressing the Ctrl Alt and Delete keys simultaneously, then selecting “Lock Computer.”
- B. Sharing of Usernames and Passwords – Sharing of Usernames and Passwords for the LDWF network or LDWF Information Systems is prohibited, except as needed by the I.T. section. The I.T. section will provide access to unavailable user’s computers when needed. If a user’s username or password must be shared for technical reasons with the I.T. section, the user should change the password immediately.

- C. Network Hardware – All hardware including but not limited to wireless / other routers, computers, printers, etc. shall not be connected to the LDWF network without prior approval from the I.T. section.
- D. Simultaneous Modem Use – Users are prohibited from using simultaneous connections via a modem and a network interface.
- E. Software Licensing– The use of unlicensed computer software is prohibited. Users are required to keep copies of licenses for the life of the machine. Users shall not install any software without a license.
- F. Encryption of Removable Media – All removable media containing personal information as defined by DWF Policy #61 (Personal Information Breach Notification Policy) or data made confidential by law must be encrypted prior to being removed from an LDWF facility, and remain encrypted until the device is returned to a DWF facility. Removable media includes but is not limited to laptops, external hard drives, thumb drives, compact disks, etc. The I.T. section will provide assistance to accomplish this. The taking of sensitive DWF data off site without a valid business reason is prohibited.
- G. Backup of Critical Data – It is the responsibility of each user to ensure that critical data is backed up periodically. The Department's record retention policy may impact data back up and should be considered. The I.T. section will provide assistance to accomplish this.
- H. Disposal of Computers – All data in computer hard drives are required to be removed prior to disposal of the computer. Employees are required to notify the I.T. section and follow their instructions on removing this data.
- I. E-mails Containing Confidential Data – Employees are prohibited from sending e-mails containing personal information as defined by DWF Policy #61 (Personal Information Breach Notification Policy) or data made confidential by law.

Note: Supervisors are reminded that when an employee leaves, they are responsible for ensuring the data on the ex-employee's computer is handled according to this policy.

V. EMPLOYEE NOTIFICATION OF POLICY

This policy is posted on the Department of Wildlife and Fisheries Intranet Web Site for employee access. Supervisors, managers and division administrators in the Department are responsible for notifying their employees of this policy and providing a copy of this policy to those employees, who do not have intranet access.

VI. EXCEPTIONS TO POLICY

The Secretary may make exceptions to this policy whenever it is deemed to be appropriate and/or in the best interest of the Department.

Attachment III: Field Sheets

Coastal Study Area 1 Field Sheets

LDWF Oyster Sample Data Sheet

- CSA1

PROJ _____ CSA _____ STATION NAME/NUMBER _____

DATE _____ TIME _____ GEAR TYPE _____ COLLECTORS _____

COMMENTS _____

Air Temp	Wind Direction	Wind Speed	Turbidity		Conductivity	Salinity	Water Temp	DO
				TOP				
				BOTTOM				

Work Group	Size Range (mm)	Live	Dead Valve	Dead Box
		Measure 25 live spat and count the remaining live spat	Measure 25 dead spat & count remaining dead spat	
0	0 - 4			
1	5 - 9			
2	10 - 14			
3	15 - 19			
4	20 - 24			
5	25 - 29			
6	30 - 34			
7	35 - 39			
8	40 - 44			
9	45 - 49			
10	50 - 54			
11	55 - 59			
12	60 - 64			
13	65 - 69			
14	70 - 74			
15	75 - 79			
16	80 - 84			
17	85 - 89			
18	90 - 94			
19	95 - 99			
20	100 - 104			
21	105 - 109			
22	110 - 114			
23	115 - 119			
24	120 - 124			
25	125 - 129			
26	130 - 134			
27	135 - 139			
28	140 - 144			
29	145 - 149			
30	150 - 154			
31	155 - 159			
32	160 - 164			
33	165 - 169			
34	170 - 174			
35	175 - 179			
36	180 - 184			
37	185 - 189			
38	190 - 194			
39	195 - 199			
40	200 - 204			

OYSTER SUMMARY			
	Spat	Seed	Sack
Live			
Dead			
% Mortality			
Total % Mortality			
Seed & Sack % Mortality			

Species	Code	Number
Hooked Mussels	2135	
Oyster Drills	2111	
Mud Crabs	2425	
Blue Crabs	2003	
Stone Crabs	2424	
Gulf Toadfish	2109	

Additional Comments: _____

Coastal Study Area 2 Field Sheets

CSA2 Old M² Dredge

Date _____ Cond (btm) _____ Sample Size _____
 Location _____ Sal (ppt) _____ Sample No _____
 Temp(C) _____ Collector _____

mm	Group	Time		Total
		Living	Dead	
0-4	0			
5-9	1			
10-14	2			
15-19	3			
20-24	4			
25-29	5			
30-34	6			
35-39	7			
40-44	8			
45-49	9			
50-54	10			
55-59	11			
60-64	12			
65-69	13			
70-74	14			Mud
75-79	15			Crab (2425)
80-84	16			
85-89	17			
90-94	18			Oyster
95-99	19			Drill (2111)
100-104	20			
105-109	21			Blue
110-114	22			Crab (2003)
115-119	23			
120-124	24			Stone
125-129	25			Crab (2424)
130-134	26			
135-139	27			Shark's Eye
140-144	28			Snail (2218)
145-149	29			
150-154	30			

Shell Plant Year _____
 (00 if plant over 5 yrs old)
 Grid No _____
 Station No: _____

Catch: NC=No Catch
 CS=Clam Shell
 RS=Reef/Oyster Shell
 CB=Combination
 LS=Limestone
 RB=Rubble

Reef: EC=Exposed Catch
 ES=Exposed Scattered
 CM=Mud Covered
 CS=Silt Covered

Date _____ Cond (btm) _____ Sample Size _____
 Location _____ Sal (ppt) _____ Sample No _____
 Temp(C) _____ Collector _____

mm	Group	Time		Total
		Living	Dead	
0-4	0			
5-9	1			
10-14	2			
15-19	3			
20-24	4			
25-29	5			
30-34	6			
35-39	7			
40-44	8			
45-49	9			
50-54	10			
55-59	11			
60-64	12			
65-69	13			
70-74	14			Mud
75-79	15			Crab (2425)
80-84	16			
85-89	17			
90-94	18			Oyster
95-99	19			Drill (2111)
100-104	20			
105-109	21			Blue
110-114	22			Crab (2003)
115-119	23			
120-124	24			Stone
125-129	25			Crab (2424)
130-134	26			
135-139	27			Shark's Eye
140-144	28			Snail (2218)
145-149	29			
150-154	30			

Shell Plant Year _____
 (00 if plant over 5 yrs old)
 Grid No _____
 Station No: _____

Catch: NC=No Catch
 CS=Clam Shell
 RS=Reef/Oyster Shell
 CB=Combination
 LS=Limestone
 RB=Rubble

Reef: EC=Exposed Catch
 ES=Exposed Scattered
 CM=Mud Covered
 CS=Silt Covered

m² + Dredge

LDWF Oyster Sample Data Sheet

PROJ _____ CSA _____ STATION NAME/NUMBER _____
 DATE _____ TIME _____ GEAR TYPE _____ COLLECTORS _____
 COMMENTS _____

Air Temp	Wind Direction	Wind Speed	Turbidity		Conductivity	Salinity	Water Temp	DO
				TOP				
				BOTTOM				

Work Group	Size Range (mm)	Live	Dead Valve	Dead Box
		Measure 25 live spat and count the remaining live spat	Measure 25 dead spat & count remaining dead spat	
0	0 - 4			
1	5 - 9			
2	10 - 14			
3	15 - 19			
4	20 - 24			
5	25 - 29			
6	30 - 34			
7	35 - 39			
8	40 - 44			
9	45 - 49			
10	50 - 54			
11	55 - 59			
12	60 - 64			
13	65 - 69			
14	70 - 74			
15	75 - 79			
16	80 - 84			
17	85 - 89			
18	90 - 94			
19	95 - 99			
20	100 - 104			
21	105 - 109			
22	110 - 114			
23	115 - 119			
24	120 - 124			
25	125 - 129			
26	130 - 134			
27	135 - 139			
28	140 - 144			
29	145 - 149			
30	150 - 154			
31	155 - 159			
32	160 - 164			
33	165 - 169			
34	170 - 174			
35	175 - 179			
36	180 - 184			
37	185 - 189			
38	190 - 194			
39	195 - 199			
40	200 - 204			

OYSTER SUMMARY			
	Spat	Seed	Sack
Live			
Dead			
% Mortality			
Total % Mortality			
Seed & Sack % Mortality			

Species	Code	Number
Hooked Mussels	2135	
Oyster Drills	2111	
Mud Crabs	2425	
Blue Crabs	2003	
Stone Crabs	2424	
Gulf Toadfish	2109	

Additional Comments: _____

Area 2 Isohaline

WEEK _____

STATION Triple Pass 302 DATE _____ TIME _____

AIR TEMP _____ TURBIDITY _____ WIND DIR _____ SPEED _____

SEA STATE _____ TIDE _____ CLOUD COVER _____

TOP CONDUCTIVITY _____ SALINITY _____ TEMP _____

BOTTOM _____

COMMENTS _____

STATION Bay Lafourche 352 DATE _____ TIME _____

AIR TEMP _____ TURBIDITY _____ WIND DIR _____ SPEED _____

SEA STATE _____ TIDE _____ CLOUD COVER _____ SPAT _____

TOP CONDUCTIVITY _____ SALINITY _____ TEMP _____

BOTTOM _____

COMMENTS _____

STATION Bay Gardene 346 DATE _____ TIME _____

AIR TEMP _____ TURBIDITY _____ WIND DIR _____ SPEED _____

SEA STATE _____ TIDE _____ CLOUD COVER _____ SPAT _____

TOP CONDUCTIVITY _____ SALINITY _____ TEMP _____

BOTTOM _____

COMMENTS _____

STATION Bay Crabe 354 DATE _____ TIME _____

AIR TEMP _____ TURBIDITY _____ WIND DIR _____ SPEED _____

SEA STATE _____ TIDE _____ CLOUD COVER _____ SPAT _____

TOP CONDUCTIVITY _____ SALINITY _____ TEMP _____

BOTTOM _____

COMMENTS _____

Coastal Study Area 3 Field Sheets

DATE ____ / ____ / ____

Barataria Bay South
ISOHALINE STATIONS

MONTH _____

PER. _____

PHY E _____

Edit 1 _____ Date _____ Edit 2 _____ Date _____ Dump _____ Date _____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:			Station:			Station:		
COND.	SAL.	TEMP.	COND.	SAL.	TEMP.	COND.	SAL.	TEMP.
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Station:		
COND.	SAL.	TEMP.
_____	_____	_____
_____	_____	_____

- | | | | | |
|-----------------------|------------------------|-----|----------------------|----------------------|
| Grand Terre Beach 538 | Bay Lour's 519 | 524 | Bay Chene Fleur* 522 | Grand Terre Bay* 534 |
| Barataria Pass 537 | Hackberry Bay* 517 | | Bay Six 516 | |
| Queen Bess 533 | Lower Grand Bayou 517 | | Bay Batiste* 526 | |
| Bay Des Ilettes* 528 | Lower Little Lake* 514 | | Cat Island 530 | |
| Mendicant Island 532 | Bay St. Denis* 515 | | E. Bay Ronquille 536 | |
| Bay Macoin 531 | Mud Lake 518 | | Cat Bay* 535 | |
| Bayou Fer Blanc* 527 | Manilla Village 520 | | Mid. Bank Light* 529 | |
| Bay Rambo* 523 | St. Mary's Pt.* 521 | | Bassa Bassa Bay 525 | |

DATE ___/___/___

Barataria Bay
NESTIER TRAYS

MONTH _____

Edit 1 _____ Date _____ Edit 2 _____ Date _____ Dump _____ Date _____

STATION _____ TIME _____ AIR Temp _____ . _____ Secchi _____ . _____ CODE _____

COND.	SAL.	TEMP.	PER.	BIO E	V	D	PHY E	V	D
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	COMMENTS: _____						
_____	_____	_____	_____						

Tray 1 (knot)

1 _____	2 _____	3 _____	4 _____
5 _____	6 _____		
7 _____	8 _____	9 _____	10 _____
11 _____	12 _____	13 _____	14 _____
15 _____	16 _____		
17 _____	18 _____	19 _____	20 _____

Tray 2 (no knot)

COMMENTS: _____

1 _____	2 _____	3 _____	4 _____
5 _____	6 _____		
7 _____	8 _____	9 _____	10 _____
11 _____	12 _____	13 _____	14 _____
15 _____	16 _____		
17 _____	18 _____	19 _____	20 _____

Bay Des Ilettes	528	Lower Little Lake	514	Bay Batiste	526
Bayou Fer Blanc	527	Bay St. Denis	515	Cat Bay	535
Bay Rambo	523	St. Mary's Pt.	521	Mid. Bank Light	529
Hackberry Bay	519	Bay Chene Fluor	522	Grand Terre Bay	534

D = OYSTER IS DEAD A = OYSTER IS ALIVE G = OYSTER IS GONE

DATE ____ / ____ / ____

Barataria Bay North
ISOHALINE STATIONS

MONTH _____

PER. _____

PHY E _____ DATE _____

Edit 1 _____ Date _____ Edit 2 _____ Date _____ Dump _____ Date _____

AIR TEMP. _____ CLOUD COVER _____ SEA STATE _____ WIND DIR _____

WIND SPEED _____ TIDE STAGE _____

EDIT 1 _____ DATE _____ EDIT 2 _____ DATE _____ DUMP _____ DATE _____

Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.
	_____	_____	_____		_____	_____	_____		_____	_____	_____
	_____	_____	_____		_____	_____	_____		_____	_____	_____

Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.
	_____	_____	_____		_____	_____	_____		_____	_____	_____
	_____	_____	_____		_____	_____	_____		_____	_____	_____

Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.
	_____	_____	_____		_____	_____	_____		_____	_____	_____
	_____	_____	_____		_____	_____	_____		_____	_____	_____

Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.	Station:	COND.	SAL.	TEMP.
	_____	_____	_____		_____	_____	_____		_____	_____	_____
	_____	_____	_____		_____	_____	_____		_____	_____	_____

Station:	COND.	SAL.	TEMP.
	_____	_____	_____
	_____	_____	_____

- Lake Cataouache 501
- Lake Salvador North 502
- Lake Salvador South 503
- Bayou Barataria 504
- Bayou Perot 505
- Delta Farms 506
- Bayou Rigolettes 507
- The Pen 508
- Little Temple 509
- Dupre Cut 510
- Upper Little Lake 511
- Bayou St. Denis 512
- Spoonbill Bay 513

CSA III PLANKTON DATA SHEET

WEEK# _____

EDIT 1 _____ DATE _____ EDIT 2 _____ DATE _____ DUMP _____ DATE _____

FOUR - BAYOU PASS DATE: month / day / year _____ TIME: _____ S.C. 011 AIR TEMP _____

TURBIDITY _____ ft WIND DIR _____ WIND SPD _____ TIDE (I / O) _____

BROWNS _____ WHITES _____ OBS - 01

COND SAL TEMP _____ FLOW METER

top _____ IN _____ CHANGE _____

bottom _____ OUT _____

COMMENTS:

PASS ABLE DATE: _____ / _____ / _____ TIME: _____ S.C. 012 AIR TEMP _____

TURBIDITY _____ ft WIND DIR _____ WIND SPD _____ TIDE (I / O) _____

BROWNS _____ WHITES _____ OBS - 01

COND SAL TEMP _____ FLOW METER

top _____ IN _____ CHANGE _____

bottom _____ OUT _____

COMMENTS:

BARATARIA PASS DATE: _____ / _____ / _____ TIME: _____ S.C. 013 AIR TEMP _____

TURBIDITY _____ ft WIND DIR _____ WIND SPD _____ TIDE (I / O) _____

BROWNS _____ WHITES _____ OBS - 01

COND SAL TEMP _____ FLOW METER

top _____ IN _____ CHANGE _____

bottom _____ OUT _____

COMMENTS:

CAMINADA PASS DATE: _____ / _____ / _____ TIME: _____ S.C. 014 AIR TEMP _____

TURBIDITY _____ ft WIND DIR _____ WIND SPD _____ TIDE (I / O) _____

BROWNS _____ WHITES _____ OBS - 01

COND SAL TEMP _____ FLOW METER

top _____ IN _____ CHANGE _____

bottom _____ OUT _____

COMMENTS:

DATE ___/___/___ TIME _____ STATION _____ CODE _____

AIR TEMP _____ c WIND DIR. _____ ° WIND SP. _____ mph TURB. _____ ft

Edit 1 _____ Date _____ Edit 2 _____ Date _____ Dump _____ Date _____

COND.	SAL.	TEMP.

PER. _____ BIO E _____ PHY E _____
 COMMENTS: _____ WK _____

0- 4	0	0
5- 9	1	1
10- 14	2	2
15- 20	3	3
20- 24	4	4
25- 29	5	5
30- 34	6	6
35- 39	7	7
40- 44	8	8
45- 49	9	9
50- 54	10	10
55- 59	11	11
60- 64	12	12
65- 69	13	13
70- 74	14	14
75- 79	15	15
80- 84	16	16
85- 89	17	17
90- 94	18	18
95- 99	19	19
100-104	20	20
105-109	21	21
110-114	22	22
115-119	23	23
120-124	24	24
125-129	25	25
130-134	26	26
135-139	27	27
140-144	28	28
145-149	29	29
150-154	30	30
155-159	31	31
160-164	32	32
165-169	33	33
170-174	34	34
175-179	35	35
180-184	36	36
185-189	37	37
190-194	38	38
195-199	39	39
200-204	40	40
205-209	41	41
210-214	42	42
215-219	43	43
220-224	44	44
225-229	45	45
230-234	46	46
235-239	47	47
240-244	48	48

Creole Bay	03	Snail Bay	25	Round Lake	26
Bayou Garci	30	Little Lake	29	Bay Dispute	32
Bay Rambo	24	Lake Five	27	Billet Bay	52

DATE ____ / ____ / ____ TIME _____ STATION _____ CODE _____

AIR TEMP ____ . ____ c WIND DIR. _____ ° WIND SP. ____ . ____ mph TURB. ____ . ____ ft

Edit 1 ____ Date _____ Edit 2 ____ Date _____ Dump ____ Date _____

COND.	SAL.	TEMP.

PER. _____ BIO E _____ PHY E _____
 COMMENTS: _____ WK _____

0- 4 0	0
5- 9 1	1
10- 14 2	2
15- 19 3	3
20- 24 4	4
25- 29 5	5
30- 34 6	6
35- 39 7	7
40- 44 8	8
45- 49 9	9
50- 54 10	10
55- 59 11	11
60- 64 12	12
65- 69 13	13
70- 74 14	14
75- 79 15	15
80- 84 16	16
85- 89 17	17
90- 94 18	18
95- 99 19	19
100-104 20	20
105-109 21	21
110-114 22	22
115-119 23	23
120-124 24	24
125-129 25	25
130-134 26	26
135-139 27	27
140-144 28	28
145-149 29	29
150-154 30	30
155-159 31	31
160-164 32	32
165-169 33	33
170-174 34	34
175-179 35	35
180-184 36	36
185-189 37	37
190-194 38	38
195-199 39	39
200-204 40	40
205-209 41	41
210-214 42	42
215-219 43	43
220-224 44	44
225-229 45	45
230-234 46	46
235-239 47	47
240-244 48	48

Porpise Bay 022 Bay L'Ours 031 Bay Batiste 006 Grand Bank Bayou 033
 Airplane Lake 020 Mud Lake 028 Lake Grand Ecaille 009

DATE ___/___/___ TIME _____ STATION _____ CODE _____

AIR TEMP _____ °C WIND DIR. _____ ° WIND SP. _____ mph TURB. _____ ft

Edit 1 _____ Date _____ Edit2 _____ Date _____ Dump _____ Date _____

COND.	SAL.	TEMP.	PER.	PE	DATE	BE	DATE		
---	---	---	COMMENTS: _____						
---	---	---							WK _____

0- 4	0	0
5- 9	1	1
10- 14	2	2
15- 19	3	3
20- 24	4	4
25- 29	5	5
30- 34	6	6
35- 39	7	7
40- 44	8	8
45- 49	9	9
50- 54	10	10
55- 59	11	11
60- 64	12	12
65- 69	13	13
70- 74	14	14
75- 79	15	15
80- 84	16	16
85- 89	17	17
90- 94	18	18
95- 99	19	19
100-104	20	20
105-109	21	21
110-114	22	22
115-119	23	23
120-124	24	24
125-129	25	25
130-134	26	26
135-139	27	27
140-144	28	28
145-149	29	29
150-154	30	30
155-159	31	31
160-164	32	32
165-169	33	33
170-174	34	34
175-179	35	35
180-184	36	36
185-189	37	37
190-194	38	38
195-199	39	39
200-204	40	40
205-209	41	41
210-214	42	42
215-219	43	43
220-224	44	44
225-229	45	45
230-234	46	46

St. Mary's Point	005	Caminada Bay	015	G.T. Beach	047	SPOONBILL	417	SALVADOR	420
Bay Ronquille	042	G.I. Beach	048	3-Mile G.I.	044	LITTLE LAKE	418	PEN	421
Independence Island	008	3-Mile G.T.	045	SNAIL BAY	416	RIGOLETTES	419		

LDWF Oyster Sample Data Sheet

PROJ _____ CSA _____ STATION NAME/NUMBER _____

DATE _____ TIME _____ GEAR TYPE _____ COLLECTORS _____

COMMENTS _____

EDIT 1 _____ DATE _____ EDIT 2 _____ DATE _____ DUMP _____ DATE _____

Air Temp	Wind Direction	Wind Speed	Turbidity		Conductivity	Salinity	Water Temp	DO
				TOP				
				BOTTOM				

Work Group	Size Range (mm)	Live	Dead Valve	Dead Box
		Measure 25 live spat and count the remaining live spat		Measure 25 dead spat & count remaining dead spat
0	0 - 4			
1	5 - 9			
2	10 - 14			
3	15 - 19			
4	20 - 24			
5	25 - 29			
6	30 - 34			
7	35 - 39			
8	40 - 44			
9	45 - 49			
10	50 - 54			
11	55 - 59			
12	60 - 64			
13	65 - 69			
14	70 - 74			
15	75 - 79			
16	80 - 84			
17	85 - 89			
18	90 - 94			
19	95 - 99			
20	100 - 104			
21	105 - 109			
22	110 - 114			
23	115 - 119			
24	120 - 124			
25	125 - 129			
26	130 - 134			
27	135 - 139			
28	140 - 144			
29	145 - 149			
30	150 - 154			
31	155 - 159			
32	160 - 164			
33	165 - 169			
34	170 - 174			
35	175 - 179			
36	180 - 184			
37	185 - 189			
38	190 - 194			
39	195 - 199			
40	200 - 204			

OYSTER SUMMARY			
	Spat	Seed	Sack
Live			
Dead			
% Mortality			
Total % Mortality			
Seed & Sack % Mortality			

Species	Code	Number
Hooked Mussels	2135	
Oyster Drills	2111	
Mud Crabs	2425	
Blue Crabs	2003	
Stone Crabs	2424	
Gulf Toadfish	2109	

Additional Comments: _____

Coastal Study Area 4/5 Field Sheets

LDWF Oyster Sample Data Sheet

PROJ _____ CSA _____ STATION NAME/NUMBER _____

DATE _____ TIME _____ GEAR TYPE _____ COLLECTORS _____

COMMENTS _____

Air Temp	Wind Direction	Wind Speed	Turbidity		Conductivity	Salinity	Water Temp	DO
				TOP				
				BOTTOM				

Work Group	Size Range (mm)	Live	Work Group	Dead Valve	Dead Box
		Measure 25 live spat and count the remaining live spat			Measure 25 dead spat & count remaining dead spat
0	0 - 4		0		
1	5 - 9		1		
2	10 - 14		2		
3	15 - 19		3		
4	20 - 24		4		
5	25 - 29		5		
6	30 - 34		6		
7	35 - 39		7		
8	40 - 44		8		
9	45 - 49		9		
10	50 - 54		10		
11	55 - 59		11		
12	60 - 64		12		
13	65 - 69		13		
14	70 - 74		14		
15	75 - 79		15		
16	80 - 84		16		
17	85 - 89		17		
18	90 - 94		18		
19	95 - 99		19		
20	100 - 104		20		
21	105 - 109		21		
22	110 - 114		22		
23	115 - 119		23		
24	120 - 124		24		
25	125 - 129		25		
26	130 - 134		26		
27	135 - 139		27		
28	140 - 144		28		
29	145 - 149		29		
30	150 - 154		30		
31	155 - 159		31		
32	160 - 164		32		
33	165 - 169		33		
34	170 - 174		34		
35	175 - 179		35		
36	180 - 184		36		
37	185 - 189		37		
38	190 - 194		38		
39	195 - 199		39		
40	200 - 204		40		

Oyster Plus Numbers		
	Spat	Seed/Sack
Live		
Dead Valve		
Dead Box		
Total Live		
Total Dead		

OYSTER SUMMARY			
	Spat	Seed	Sack
Live			
Dead			
% Mortality			
Total % Mortality			
Seed & Sack % Mortality			

Species	Code	Number
Hooked Mussels	2135	
Oyster Drills	2111	
Mud Crabs	2425	
Blue Crabs	2003	
Stone Crabs	2424	
Gulf Toadfish	2109	

LDWF Oyster Sample Data Sheet

Walkers Point 1
 Grand Pass 2
 Old Camp 4
 Outlaw Cove 6
 MB Junop 102
 LB Junop 104

PROJ _____ CSA _____ STATION NAME/NUMBER _____

DATE _____ TIME _____ GEAR TYPE _____ COLLECTORS _____

COMMENTS _____

Air Temp	Wind Direction	Wind Speed	Turbidity		Conductivity	Salinity	Water Temp	DO
				TOP				
				BOTTOM				

Work Group	Size Range (mm)	Live	Work Group	Dead Valve	Dead Box
		Measure 25 live spat and count the remaining live spat			Measure 25 dead spat & count remaining dead spat
0	0 - 4		0		
1	5 - 9		1		
2	10 - 14		2		
3	15 - 19		3		
4	20 - 24		4		
5	25 - 29		5		
6	30 - 34		6		
7	35 - 39		7		
8	40 - 44		8		
9	45 - 49		9		
10	50 - 54		10		
11	55 - 59		11		
12	60 - 64		12		
13	65 - 69		13		
14	70 - 74		14		
15	75 - 79		15		
16	80 - 84		16		
17	85 - 89		17		
18	90 - 94		18		
19	95 - 99		19		
20	100 - 104		20		
21	105 - 109		21		
22	110 - 114		22		
23	115 - 119		23		
24	120 - 124		24		
25	125 - 129		25		
26	130 - 134		26		
27	135 - 139		27		
28	140 - 144		28		
29	145 - 149		29		
30	150 - 154		30		
31	155 - 159		31		
32	160 - 164		32		
33	165 - 169		33		
34	170 - 174		34		
35	175 - 179		35		
36	180 - 184		36		
37	185 - 189		37		
38	190 - 194		38		
39	195 - 199		39		
40	200 - 204		40		

Oyster Plus Numbers

	Spat	Seed/Sack
Live		
Dead Valve		
Dead Box		
Total Live		
Total Dead		

OYSTER SUMMARY

	Spat	Seed	Sack
Live			
Dead			
% Mortality			
Total % Mortality			
Seed & Sack % Mortality			

Species	Code	Number
Hooked Mussels	2135	
Oyster Drills	2111	
Mud Crabs	2425	
Blue Crabs	2003	
Stone Crabs	2424	
Gulf Toadfish	2109	

Area IV 6-ft trawls data sheet©

Station _____ Code _____ Date (M/D/Y) ____/____/____ Station _____ Code _____ Date (M/D/Y) ____/____/____

Comments: _____ Time: _____ Comments: _____ Time: _____

Air Temp: _____ ° C Air Temp: _____ ° C

Cloud Cover _____ % Cloud Cover _____ %

Sea State: _____ ft. Sea State: _____ ft.

Wind Direction: _____ Wind Direction: _____

Wind Speed: _____ MPH Wind Speed: _____ MPH

Tide: _____ Tide: _____

Turbidity: _____ ft. Turbidity: _____ ft.

Conductivity: _____ Conductivity: _____

Salinity: _____ PPT Salinity: _____ PPT

Water Temp: _____ ° C Water Temp: _____ ° C

5mm working group	2001		2002	
	0	1	0	1
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				

6 ft. trawl stations:
 Bay Henry 013
 Moss Bay 015
 Oak Bayou 019
 Bourbeaux 311
 Charles Theriot 312

6 ft. crash stations:
 Bay Cocodrie 313
 Bay La Fleur 314
 Old Lady Lake 315
 Jean La Croit 316
 Bay Rosa 317
 Little Lake 318
 Landry Bay 319
 Devil's Bay 320

Tide Codes:
 1 Low rising
 2 mid rising
 3 High rising
 4 High standing
 5 High falling

6 mid falling
 7 low falling
 8 low standing
 9 rising
 10 falling
 11 standing

6 ft. trawl stations:
 Bay Henry 013
 Moss Bay 015
 Oak Bayou 019
 Bourbeaux 311
 Charles Theriot 312

6 ft. crash stations:
 Bay Cocodrie 313
 Bay La Fleur 314
 Old Lady Lake 315
 Jean La Croit 316
 Bay Rosa 317
 Little Lake 318
 Landry Bay 319
 Devil's Bay 320

Tide Codes:
 1 Low rising
 2 mid rising
 3 High rising
 4 High standing
 5 High falling

6 mid falling
 7 low falling
 8 low standing
 9 rising
 10 falling
 11 standing

STATION NAME/CODE _____ DATE / / _____ TIME : _____
 AIR TEMP _____ °C CLOUD COVER _____ % SEA STATE _____
 WIND DIRECTION/SPEED _____ / _____ mph TIDE STAGE _____ TURBIDITY _____
 COND _____ SAL _____ WATER TEMP _____ GEAR TYPE _____
 COMMENTS _____

STATION NAME/CODE _____ DATE / / _____ TIME : _____
 AIR TEMP _____ °C CLOUD COVER _____ % SEA STATE _____
 WIND DIRECTION/SPEED _____ / _____ mph TIDE STAGE _____ TURBIDITY _____
 COND _____ SAL _____ WATER TEMP _____ GEAR TYPE _____
 COMMENTS _____

6' TRAWL

LOCATIONS / CODES

IMPLIED GROUP	WORK GROUP	BROWN SHRIMP (2001)	WHITE SHRIMP (2002)	PINK SHRIMP (2070)	BROWN SHRIMP (2001)	WHITE SHRIMP (2002)	PINK SHRIMP (2070)
0-4mm	0						
5-9mm	1						
10-14mm	2						
15-19mm	3						
20-24mm	4						
25-29mm	5						
30-34mm	6						
35-39mm	7						
40-44mm	8						
45-49mm	9						
50-54mm	10						
55-59mm	11						
60-64mm	12						
65-69mm	13						
70-74mm	14						
75-79mm	15						
80-84mm	16						
85-89mm	17						
90-94mm	18						
95-99mm	19						
100-104mm	20						
105-109mm	21						
110-114mm	22						
115-119mm	23						
120-124mm	24						
125-129mm	25						
130-134mm	26						
135-139mm	27						
140-144mm	28						
145-149mm	29						
150-154mm	30						
155-159mm	31						
160-164mm	32						
165-169mm	33						
170-174mm	34						
175-179mm	35						
180-184mm	36						
185-189mm	37						

New Route Bay - 51
 Mud hole Bay - 52
 American Bay - 53
 Sanders Bay - 54
 Mud Lake - 56
 Sister Lake - 57
CRASH SAMPLES
 Bayou Severin - 55
 King Lake - 58
 Lost Lake - 59
 Violin Lake - 60
 Bay De L'Ouest- 61
 Redfish Bayou - 62
 Hackberry Lake- 63
 Dog Lake - 64
 Bay Charlie - 65
 Pelican Lake - 66
 Mosquito Bay - 67

Coastal Study Area 6 Field Sheets

DATE _____ STATION NAME _____ STATION CODE _____ PAGE ____ OF ____

TIME _____ GEAR TYPE _____ GEAR CODE _____

Temp. Cond. Sal. Oxy. DURATION AIR TEMP. TURB. _____

Top _____ ppm TIDE _____ % CLOUD COVER _____ WIND _____

Bot. _____ ppm

COLLECTOR _____ SEA STATE _____ REMARKS _____

56 Range in mm	Working Group																						Working Group
0-4	0																						0
5-9	1																						1
10-14	2																						2
15-19	3																						3
20-24	4																						4
25-29	5																						5
30-34	6																						6
35-39	7																						7
40-44	8																						8
45-49	9																						9
50-54	10																						10
55-59	11																						11
60-64	12																						12
65-69	13																						13
70-74	14																						14
75-79	15																						15
80-84	16																						16
85-89	17																						17
90-94	18																						18
95-99	19																						19
100-104	20																						20
105-109	21																						21
110-114	22																						22
115-119	23																						23
120-124	24																						24
125-129	25																						25
130-134	26																						26
135-139	27																						27
140-144	28																						28
145-149	29																						29
150-154	30																						30
155-159	31																						31
160-164	32																						32
165-169	33																						33
170-174	34																						34
175-179	35																						35
180-184	36																						36
185-189	37																						37
190-194	38																						38
195-199	39																						39
200-204	40																						40
205-209	41																						41
210-214	42																						42
215-219	43																						43
220-224	44																						44
225-229	45																						45
230-234	46																						46
235-239	47																						47
240-244	48																						48
245-249	49																						49
250-254	50																						50
255-259	51																						51
260-264	52																						52
265-269	53																						53
270-274	54																						54
275-279	55																						55
280-284	56																						56

Shrimp

LDWF Oyster Sample Data Sheet

PROJ _____ CSA _____ STATION NAME/NUMBER _____

DATE _____ TIME _____ GEAR TYPE _____ COLLECTORS _____

COMMENTS _____

Air Temp	Wind Direction	Wind Speed	Turbidity		Conductivity	Salinity	Water Temp	DO
				TOP				
				BOTTOM				

Work Group	Size Range (mm)	Live	Dead Valve	Dead Box
		Measure 25 live spat and count the remaining live spat	Measure 25 dead spat & count remaining dead spat	
0	0 - 4			
1	5 - 9			
2	10 - 14			
3	15 - 19			
4	20 - 24			
5	25 - 29			
6	30 - 34			
7	35 - 39			
8	40 - 44			
9	45 - 49			
10	50 - 54			
11	55 - 59			
12	60 - 64			
13	65 - 69			
14	70 - 74			
15	75 - 79			
16	80 - 84			
17	85 - 89			
18	90 - 94			
19	95 - 99			
20	100 - 104			
21	105 - 109			
22	110 - 114			
23	115 - 119			
24	120 - 124			
25	125 - 129			
26	130 - 134			
27	135 - 139			
28	140 - 144			
29	145 - 149			
30	150 - 154			
31	155 - 159			
32	160 - 164			
33	165 - 169			
34	170 - 174			
35	175 - 179			
36	180 - 184			
37	185 - 189			
38	190 - 194			
39	195 - 199			
40	200 - 204			

OYSTER SUMMARY			
	Spat	Seed	Sack
Live			
Dead			
% Mortality			
Total % Mortality			
Seed & Sack % Mortality			

Species	Code	Number
Hooked Mussels	2135	
Oyster Drills	2111	
Mud Crabs	2425	
Blue Crabs	2003	
Stone Crabs	2424	
Gulf Toadfish	2109	

Additional Comments: _____

Coastal Study Area 7 Field Sheets

CSA VII TRAWL SAMPLE FIELD SHEET

DATE _____ STATION NAME GULF 91 STATION CODE _____
 TIME _____ SAMPLE NO. _____ DURATION _____ min. PAGE _____ OF _____
 GEAR TYPE 16' TRAWL GEAR CODE _____ COLLECTOR _____
 REMARKS _____

COND. SAL. TEMP. DO AIR TEMP. °C CLOUD COVER
 TOP _____ WIND _____ SEASTATE _____
 BOT _____ TURBIDITY " TIDE _____

SIZE RANGE IN MM	WORKING GROUP	
0-4	0	0
5-9	1	1
10-14	2	2
15-19	3	3
20-24	4	4
25-29	5	5
30-34	6	6
35-39	7	7
40-44	8	8
45-49	9	9
50-54	10	10
55-59	11	11
60-64	12	12
65-69	13	13
70-74	14	14
75-79	15	15
80-84	16	16
85-89	17	17
90-94	18	18
95-99	19	19
100-104	20	20
105-109	21	21
110-114	22	22
115-119	23	23
120-124	24	24
125-129	25	25
130-134	26	26
135-139	27	27
140-144	28	28
145-149	29	29
150-154	30	30
155-159	31	31
160-164	32	32
165-169	33	33
170-174	34	34
175-179	35	35
180-184	36	36
185-189	37	37
190-194	38	38
195-199	39	39
200-204	40	40
205-209	41	41
210-214	42	42
215-219	43	43
220-224	44	44
225-229	45	45
230-234	46	46
235-239	47	47
240-244	48	48
245-249	49	49
250-254	50	50

T. I. P. Field Sheet

Interview Information

Date _____ Interviewer _____ Interview No. _____
 Fishing Mode Commercial Info. Source Sale, Interv. / Sales Rec. Interview Type Fisherman / Dealer

Landing Area

State La County _____ Place Code _____

Sampling Area

State La County _____ Place Code _____ Dealer Name & No. _____

Trip Information

No. Vessels _____ Trip No. _____ Landing Type Complete / Incomplete
 Crew No. _____ Bias Type _____ None / Size / Effort Termination Normal / Equip. / Weather / Wgh. In. / Quota

Time of Data Collection (military)

Start _____ End _____

Trip Dates (YYYY-MM-DD)

Start _____ End _____ Days Out _____ Days Fished _____

Vessel Information

License Agency _____ Individual Lic. No. _____ Vessel No. _____
 Vessel Name _____ Ticket Agency _____ Trip Ticket No. _____

Effort and Positioning Information

- Gear _____ Quantity _____ Usage/Frequency _____
 Size _____ Gear Avg. Info _____ No. Set _____
 Total Line Length _____ Avg. Miles/Set _____ Soak Time _____
 Region _____ Area _____ Min. or Avg. Depth _____ Max. Depth _____
- Gear _____ Quantity _____ Usage/Frequency _____
 Size _____ Gear Avg. Info _____ No. Set _____
 Total Line Length _____ Avg. Miles/Set _____ Soak Time _____ Hrs. _____
 Region _____ Area _____ Min. or Avg. Depth _____ Max. Depth _____

Landings Information

Gear _____ Species _____ Total Weight _____ Lbs. / Kg. _____
 Condition Ungraded / Guttled, Head-on / W/Roe

Sample and Observation Information

Species _____ Sample Method Sorted / Unsorted Full Catch No / Yes
 Sample Weight _____ Count / Quantity _____ Random Sample No / Yes
 Weight Unit Lbs. / Kg. Length Unit mm / inches Length Type Fork / Total

	Sex	Weight	Length
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Sex	Weight	Length
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

CSA VII SEINE SAMPLE FIELD SHEET

STATION		MONTH		DAY		YEAR		TIME	
COND. TOP	SAL. TOP	TEMP. TOP	COND. BOT.	SAL. BOT.	TEMP. BOT.	AIR TEMP.	WIND DIR/SP	TURBIDITY	CLOUD COVER
SEA STATE	TIDE								

BRNH	WHITE	BLUR	ATLANTIC	SPOT	ORIP	SAND	STRIPED	SOUTHERN	SOFTSHED	RED	BLACK	RED	SHREVEFIELD	SPANISH	MUTT	OWLY	SPECIES	TOTAL	TOTAL
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17		WEIGHT	WEIGHT
2001	1812	2003	2005	2005	2807	2859	2017	2036	2032	2059	2060	2061	2061	2064	2105	2115			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
TOTAL																			
TOTAL																			
TOTAL																			

CHARTER BOAT PRE VALIDATION

CSA7

SPICER'S BAIT AND TACKLE

NAME	LA#	ID#	WEEK	DATE	TIME	SITE	STATUS	PARRISH	SOURCE	NOTES
TIM CONSTANCE	LA-1283-FH	2200934				1535		23	1	STALL# 51
WILLIAM MILLER	LA-4164-FA	2200671				1535		23	1	STALL# 50
GARY PELOQUIN	LA-9132-FD	2200752				1535		23	1	STALL# 49
JACOB PARASTEANT	LA-9581-FD	2200763				1535		23	1	STALL# 48
RUSTY BYLER	LA-5418-EZ	2200574				1535		23	1	STALL# 44
MARK SWINNEY	LA-4603-EW	2200786				1535		23	1	STALL# 16
BRAD BOUDREAUX	LA-4901-EV	2200204				1535		23	1	STALL# 28
GERALD FRUGE	LA-9221-FF	2200792				1535		23	1	STALL# 35
GERALD FRUGE	LA-9858-EX	2200769				1535		23	1	STALL# 36
MAX BROUSSARD	LA-8730-FE	2200760				1535		23	1	STALL# 38

NOTES:

STATUS: 1= IN
 2= OUT-charter fishing
 3= UNABLE TO VALIDATE
 4= OUT-non-charter activities
 5= OUT-fishing status unknown
 8= NOT APPLICABLE

SOURCE: 1= Direct Observation
 2= Secondary Source

FIN BIOLOGICAL SAMPLING FIELD SHEET

Page Of

SAMPLER NAME: ID: SITE NAME: SITE CODE: SIB TYPE: DATE:

LENGTH UNITS: WEIGHT UNITS: COMMENTS:

SPECIES/ COMMON NAME	MODE	TICKET TYPE OR GEAR	TICKET # OR (AUBACRS)	STATUS		COUNT / MARKET		LENGTH			WEIGHT		AGE TAG 1	AGE TAG 2	GOMAD TAG	GUT TAG	TISSUE TAG	TISSUE TYPE
				LANDED	SAMPLED	LANDED	SAMPLED	LEN 1	T	LEN 2	T	LEN 3						
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													
				22	22													

SITE TYPE	LENGTH UNITS	WEIGHT UNITS	MODE	AREA	LENGTH TYPE	SEX	TISSUE TYPE
R - RECREATIONAL C - COMMERCIAL	CM - CENTIMETERS MM - MILLIMETERS	GM - GRAMS KG - KILOGRAMS LB - POUNDS OZ - OUNCES	PR - PRIVATE BOAT PC - CHARTER HB - HEADBOAT SH - SHORE CM - COMMERCIAL	AREA MAP OR AREA FISHED TABLE DISTANCE FROM SHORE (DPS) 1 - INLAND 2 - (0-3) or (0-9) MILES 3 - 60Z 4 - INTERNATIONAL	PL - FORK SL - STANDARD TL - TOTAL	M - MALE F - FEMALE U - UNKNOWN	01 - MUSCLE 02 - EYES 03 - STOMACH

CSA7 OPENING DAY SHRIMPER INTERVIEWS

AREA/LANDING: _____ DATE: _____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

BOAT NUMBER	_____	TIME TRAWLING	_____
COMMERCIAL	_____	RECREATIONAL	_____
NET SIZE/TYPE	_____	NET MESH SIZE	_____
CATCH: BROWN SHRIMP	_____	CATCH: WHITE SHRIMP	_____
SIZE: BROWN SHRIMP	_____	SIZE: WHITE SHRIMP	_____
COMMENTS:	_____		_____

COMMENT ON WHERE SHRIMPED, WEATHER, ETC. :

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
 MARINE FISHERIES DIVISION
 COASTAL STUDY AREA VII
 1213 NORTH LAKESHORE DRIVE
 LAKE CHARLES, LA. 70601-5273

.5m NO.2 MESH PLANKTON - TOTAL CATCH
 CALCASIEU PASS

SURFACE SAMPLE

DATE _____ TIME _____ SAMPLE NUMBER _____
 DURATION _____ min. METER READING: BEGIN _____ END _____
 COLLECTOR _____
 REMARKS _____

NUMBER OF SHRIMP POST LARVAE

BROWN SHRIMP _____ WHITE SHRIMP _____

SIX FOOT DEPTH SAMPLE

DATE _____ TIME _____ SAMPLE NUMBER _____
 DURATION _____ min. METER READING: BEGIN _____ END _____
 COLLECTOR _____
 REMARKS _____

NUMBER OF SHRIMP POST LARVAE

BROWN SHRIMP _____ WHITE SHRIMP _____

	COND.	SAL.	TEMP.	D.O.	AIR TEMP.	°C	CLOUD COVER	%
TOP	_____	_____	_____	_____	WIND	_____	SEASTATE	_____
BOTTOM	_____	_____	_____	_____	TURBIDITY	_____	TIDE	_____

Inland Fisheries Data Sheets

**Inland Fisheries Division
Public Aquatic Vegetation Complaint Form**

Date	Time
Person Making Complaint:	
Address:	
Phone Number:	
Description of Area:	
Type of Vegetation:	
Biologist Taking Complaint:	
Crew Assigned:	
Date Faxed to Crew	Time
Below Filled out by Crew Leader	
Date of Application	Time
Vegetation Observed:	
Herbicide Used:	
Amount of Herbicide:	
Approximate Acreage:	
If no application, give reason:	
Date Faxed	Time

Notes:

AQUATIC VEGETATION REPORT FORM

District: _____ Crew: _____

Date: _____ Waterbody Name: _____

Waterbody Detail: _____

Estimated Total Aquatic Vegetation Coverage: _____ %

Veg1: _____ % Veg4: _____ %

Veg2: _____ % Veg5: _____ %

Veg3: _____ %

COMMENTS:

RECOMMEND SPRAYING

Date: _____ Waterbody Name: _____

Waterbody Detail: _____

Estimated Total Aquatic Vegetation Coverage: _____ %

Veg1: _____ % Veg4: _____ %

Veg2: _____ % Veg5: _____ %

Veg3: _____ %

COMMENTS:

RECOMMEND SPRAYING

Date: _____ Waterbody Name: _____

Waterbody Detail: _____

Estimated Total Aquatic Vegetation Coverage: _____ %

Veg1: _____ % Veg4: _____ %

Veg2: _____ % Veg5: _____ %

Veg3: _____ %

COMMENTS:

RECOMMEND SPRAYING

BOAT RAMP EVALUATION REPORT FORM

District: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Capacity: _____ Ramp Condition: _____ Lot Condition: _____ Trash: _____

- Garbage Cans Available
- Wallop Breaux Signs Present
- BOR Signs Present
- Fee Charged To Use Ramp
- Ramp Needs Maintenance

Comments:

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Capacity: _____ Ramp Condition: _____ Lot Condition: _____ Trash: _____

- Garbage Cans Available
- Wallop Breaux Signs Present
- BOR Signs Present
- Fee Charged To Use Ramp
- Ramp Needs Maintenance

Comments:

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Capacity: _____ Ramp Condition: _____ Lot Condition: _____ Trash: _____

- Garbage Cans Available
- Wallop Breaux Signs Present
- BOR Signs Present
- Fee Charged To Use Ramp
- Ramp Needs Maintenance

Comments:

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Capacity: _____ Ramp Condition: _____ Lot Condition: _____ Trash: _____

- Garbage Cans Available
- Wallop Breaux Signs Present
- BOR Signs Present
- Fee Charged To Use Ramp
- Ramp Needs Maintenance

Comments:

STREAM CLEARING REPORT FORM

District: _____

Waterbody Code: _____ Waterbody: _____

Parish: _____ Waterbody Detail: _____

Date: _____

Work Done:

Hours Worked: _____

Waterbody Code: _____ Waterbody: _____

Parish: _____ Waterbody Detail: _____

Date: _____

Work Done:

Hours Worked: _____

Waterbody Code: _____ Waterbody: _____

Parish: _____ Waterbody Detail: _____

Date: _____

Work Done:

Hours Worked: _____

Waterbody Code: _____ Waterbody: _____

Parish: _____ Waterbody Detail: _____

Date: _____

Work Done:

Hours Worked: _____

Waterbody Code: _____ Waterbody: _____

Parish: _____ Waterbody Detail: _____

Date: _____

Work Done:

Hours Worked: _____

BOAT RAMP MAINTENANCE REPORT FORM

District: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Project #: _____

Work Done:

Hours Worked: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Project #: _____

Work Done:

Hours Worked: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Project #: _____

Work Done:

Hours Worked: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Project #: _____

Work Done:

Hours Worked: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Project #: _____

Work Done:

Hours Worked: _____

Ramp ID: _____ Parish: _____ Waterbody: _____ Date: _____

Project #: _____

Work Done:

Hours Worked: _____

AQUATIC PLANT CONTROL – HERBICIDE APPLICATION DATA

Project: _____ Equipment: _____ Crew: _____ Date: _____ Parish: _____

Waterbody Code: _____ Waterbody Name: _____

Waterbody Detail: _____

BEGIN	(Circle One)	
TIME: _____	(AM) or (PM)	
HOUR METER: _____		
<input type="checkbox"/> FAIR	AIR TEMP: _____°F	
<input type="checkbox"/> CLOUDY	WIND VEL: _____ mph	
<input type="checkbox"/> RAIN	WIND DIR: _____	

NOON	
<input type="checkbox"/> FAIR	AIR TEMP: _____°F
<input type="checkbox"/> CLOUDY	WIND VEL: _____ mph
<input type="checkbox"/> RAIN	WIND DIR: _____

END	(Circle One)	
TIME: _____	(AM) or (PM)	
HOUR METER: _____		
<input type="checkbox"/> FAIR	AIR TEMP: _____°F	
<input type="checkbox"/> CLOUDY	WIND VEL: _____ mph	
<input type="checkbox"/> RAIN	WIND DIR: _____	

TYPE OF AREA SPRAYED	
<input type="checkbox"/> FRESHWATER	
<input type="checkbox"/> SALTWATER	

Herbicide: _____ Fund: _____ Contract # _____ Gallons: _____ Pounds: _____ Rate: _____ Restricted ()

Surfactant: _____ Fund: _____ Contract # _____ Gallons: _____ Area Sprayed: _____ (acres) Avg Depth _____ (feet)

VEGETATION TREATED

Veg 1: _____	_____ %	Veg 6: _____	_____ %
Veg 2: _____	_____ %	Veg 7: _____	_____ %
Veg 3: _____	_____ %	Veg 8: _____	_____ %
Veg 4: _____	_____ %	Veg 9: _____	_____ %
Veg 5: _____	_____ %	Veg 10: _____	_____ %

APPLICATOR: _____

CERTIFICATION # _____

DRIVER: _____

REMARKS: _____

CONTINUATION SHEET

Lake/River _____ Date _____ Gear Type _____

Species		Length Group	Tot. No.	Tot. Wt.	Species		Length Group	Tot. No.	Tot. Wt.
Name	Code				Name	Code			

WATER QUALITY

DATE: _____

LOCATION: _____

GEAR TYPE: _____

	SURFACE	BOTTOM
TEMPERATURE		
Spc		
Salinity		
DO		
Depth		
PH		
ORP		
Turbidity		

TIME: _____

TIDE Height: _____

AIR TEMP: _____

Stage: _____

AIR SPEED(knts): _____

Range: _____

DIR. OF WIND: _____

CLOUD COVER(%): _____

SECCHI(inches): _____

**LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
FISH KILL FIELD FORM**

Date of investigation: Time:	Water Body: Code: Parish:	Report No.: Classification <input type="checkbox"/> stage 2 <input type="checkbox"/> stage 3
Departmental investigators:	Non-departmental investigators: <input type="checkbox"/> LDEQ <input type="checkbox"/> LDAF <input type="checkbox"/> other, specify	
Area effected (attach map): 		
Description of surroundings: <input type="checkbox"/> wooded <input type="checkbox"/> houses/camps <input type="checkbox"/> industry <input type="checkbox"/> agriculture <input type="checkbox"/> marsh <input type="checkbox"/> other, specify	Abnormal water characteristics: <input type="checkbox"/> none <input type="checkbox"/> odor, specify <input type="checkbox"/> color, specify <input type="checkbox"/> excessive algae bloom <input type="checkbox"/> oily sheen <input type="checkbox"/> other, specify	
Condition of dead fish: <input type="checkbox"/> whole, with or without body color <input type="checkbox"/> partially decomposed <input type="checkbox"/> lesions <input type="checkbox"/> evidence of fishing mortality <input type="checkbox"/> pectoral fins extended anteriorly <input type="checkbox"/> other, specify	Symptoms of distressed fish: <input type="checkbox"/> gasping <input type="checkbox"/> convulsive <input type="checkbox"/> erratic swimming <input type="checkbox"/> lethargic <input type="checkbox"/> other, specify	
Comments:		

Attachment IV: SAS File List

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.CRLMASTER]

CRL11_00.SASEB\$DATA;1	2753	21-OCT-2004	10:14:02.63
CRL11_01.SASEB\$DATA;1	2945	21-OCT-2004	10:13:44.53
CRL11_02.SASEB\$DATA;1	1985	21-OCT-2004	10:13:21.33
CRL11_03.SASEB\$DATA;1	1345	21-OCT-2004	10:12:57.31
CRL11_04.SASEB\$DATA;246	2241	20-JAN-2006	23:01:09.70
CRL11_05.SASEB\$DATA;233	2177	10-APR-2006	08:51:51.53
CRL11_06.SASEB\$DATA;753	2305	4-MAR-2009	23:02:22.05
CRL11_07.SASEB\$DATA;658	2305	24-AUG-2009	23:00:36.63
CRL11_08.SASEB\$DATA;375	2497	24-AUG-2009	23:00:37.25
CRL11_09.SASEB\$DATA;124	705	24-AUG-2009	23:00:37.50
CRL11_88.SASEB\$DATA;1	65	26-MAY-1995	08:59:09.16
CRL11_89.SASEB\$DATA;4	2113	24-JUN-1996	15:50:30.16
CRL11_90.SASEB\$DATA;4	2049	24-JUN-1996	15:51:12.22
CRL11_91.SASEB\$DATA;4	1153	24-JUN-1996	15:51:25.16
CRL11_92.SASEB\$DATA;5	1089	24-JUN-1996	15:51:36.78
CRL11_93.SASEB\$DATA;11	2625	4-NOV-1996	12:27:00.69
CRL11_94.SASEB\$DATA;12	5697	4-NOV-1996	12:11:24.84
CRL11_95.SASEB\$DATA;8	4353	21-OCT-1996	10:45:05.39
CRL11_96.SASEB\$DATA;12	5953	21-OCT-2004	10:20:07.14
CRL11_97.SASEB\$DATA;1	1537	21-OCT-2004	10:15:58.06
CRL11_98.SASEB\$DATA;1	2689	21-OCT-2004	10:15:11.35
CRL11_99.SASEB\$DATA;1	321	21-OCT-2004	10:14:23.16
OLDCRL89.SASEB\$DATA;1	1089	26-MAY-1995	08:59:09.66
QST11_00.SASEB\$DATA;1	222	3-NOV-2004	15:25:10.63

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

QST11_01.SASEB\$DATA;1	256	3-NOV-2004	15:24:30.11
QST11_02.SASEB\$DATA;1	205	3-NOV-2004	15:24:13.16
QST11_03.SASEB\$DATA;1	120	3-NOV-2004	15:23:55.15

Total of 27 files, 52794 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.BIOMASTER]

ATCH.SASEB\$DATA;10	6553	30-APR-2007	08:53:48.49
BDRUM.SASEB\$DATA;1	5721	9-JAN-2001	08:47:44.43
BIO1_00.SASEB\$DATA;565			
	18649	25-JAN-2006	10:36:03.76
BIO1_01.SASEB\$DATA;508			
	19204	30-DEC-2005	10:05:23.00
BIO1_02.SASEB\$DATA;508			
	19093	30-DEC-2005	10:05:32.39
BIO1_03.SASEB\$DATA;992			
	18427	17-JAN-2007	22:59:53.59
BIO1_04.SASEB\$DATA;778			
	17206	17-JAN-2007	22:59:53.66
BIO1_05.SASEB\$DATA;789			
	19759	17-JAN-2008	23:00:37.71
BIO1_06.SASEB\$DATA;792			
	22201	19-JAN-2009	23:00:47.91
BIO1_07.SASEB\$DATA;540			
	21128	12-FEB-2009	23:01:39.64
BIO1_08.SASEB\$DATA;414			
	22867	24-AUG-2009	23:00:29.68
BIO1_09.SASEB\$DATA;155			
	17206	24-AUG-2009	23:00:29.76
BIO1_66.SASEB\$DATA;5			
	334	30-DEC-2005	09:48:00.83
BIO1_67.SASEB\$DATA;5			
	5958	30-DEC-2005	09:49:17.80
BIO1_68.SASEB\$DATA;5			
	8585	30-DEC-2005	09:49:20.55
BIO1_69.SASEB\$DATA;5			
	4626	30-DEC-2005	09:49:25.50
BIO1_70.SASEB\$DATA;5			
	4848	30-DEC-2005	09:50:50.20
BIO1_71.SASEB\$DATA;5			
	8474	30-DEC-2005	09:50:52.39
BIO1_72.SASEB\$DATA;5			
	9880	30-DEC-2005	09:50:56.05
BIO1_73.SASEB\$DATA;5			
	14727	30-DEC-2005	09:51:00.92
BIO1_74.SASEB\$DATA;5			
	15726	30-DEC-2005	09:51:08.33
BIO1_75.SASEB\$DATA;5			
	10324	30-DEC-2005	09:51:16.25
BIO1_76.SASEB\$DATA;5			
	7697	30-DEC-2005	09:51:21.46
BIO1_77.SASEB\$DATA;5			
	6846	30-DEC-2005	09:51:25.57
BIO1_78.SASEB\$DATA;5			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

BIO1_79.SASEB\$DATA;5	5958	30-DEC-2005	09:51:28.94
BIO1_80.SASEB\$DATA;5	7327	30-DEC-2005	09:51:32.23
BIO1_81.SASEB\$DATA;5	10546	30-DEC-2005	09:52:32.99
BIO1_82.SASEB\$DATA;5	14357	30-DEC-2005	09:52:37.54
BIO1_83.SASEB\$DATA;5	17132	30-DEC-2005	09:52:43.58
BIO1_84.SASEB\$DATA;5	17169	30-DEC-2005	09:52:51.13
BIO1_85.SASEB\$DATA;5	14727	30-DEC-2005	09:52:58.47
BIO1_86.SASEB\$DATA;6	16022	30-DEC-2005	09:53:05.10
BIO1_87.SASEB\$DATA;6	13543	30-DEC-2005	10:02:58.72
BIO1_88.SASEB\$DATA;6	14875	30-DEC-2005	10:03:08.41
BIO1_89.SASEB\$DATA;6	13802	30-DEC-2005	10:03:21.68
BIO1_90.SASEB\$DATA;7	12951	30-DEC-2005	10:03:31.43
BIO1_91.SASEB\$DATA;7	15060	30-DEC-2005	10:03:41.14
BIO1_92.SASEB\$DATA;7	17502	30-DEC-2005	10:03:52.26
BIO1_93.SASEB\$DATA;65	15245	30-DEC-2005	10:04:06.70
BIO1_94.SASEB\$DATA;524	16614	30-DEC-2005	10:04:16.54
BIO1_95.SASEB\$DATA;528	15319	30-DEC-2005	10:04:28.99
BIO1_96.SASEB\$DATA;328	16022	30-DEC-2005	10:04:36.19
BIO1_97.SASEB\$DATA;311	13987	30-DEC-2005	10:04:43.42
BIO1_98.SASEB\$DATA;792	14579	30-DEC-2005	10:04:49.88
BIO1_99.SASEB\$DATA;827	17169	30-DEC-2005	10:04:57.03
BIO2_00.SASEB\$DATA;553	17317	30-DEC-2005	10:05:05.53
BIO2_01.SASEB\$DATA;495	25961	30-DEC-2005	10:08:19.61
BIO2_02.SASEB\$DATA;504	22881	30-DEC-2005	10:08:30.46
BIO2_03.SASEB\$DATA;990	22881	30-DEC-2005	10:08:40.28
	21616	17-JAN-2007	23:00:42.81

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

BIO2_04.SASEB\$DATA;772	21836	17-JAN-2007	23:00:42.88
BIO2_05.SASEB\$DATA;787	21451	17-JAN-2008	23:01:33.93
BIO2_06.SASEB\$DATA;788	23706	19-JAN-2009	23:02:02.89
BIO2_07.SASEB\$DATA;537	23541	12-FEB-2009	23:03:13.96
BIO2_08.SASEB\$DATA;412	23761	24-AUG-2009	23:02:02.34
BIO2_09.SASEB\$DATA;153	15841	24-AUG-2009	23:02:02.61
BIO2_86.SASEB\$DATA;4	18096	30-DEC-2005	10:06:31.69
BIO2_87.SASEB\$DATA;5	12541	30-DEC-2005	10:06:38.77
BIO2_88.SASEB\$DATA;4	12376	30-DEC-2005	10:06:43.66
BIO2_89.SASEB\$DATA;6	11661	30-DEC-2005	10:06:48.62
BIO2_90.SASEB\$DATA;6	11771	30-DEC-2005	10:06:53.31
BIO2_91.SASEB\$DATA;5	11826	30-DEC-2005	10:06:58.10
BIO2_92.SASEB\$DATA;4	16501	30-DEC-2005	10:07:04.13
BIO2_93.SASEB\$DATA;52	20626	30-DEC-2005	10:07:10.62
BIO2_94.SASEB\$DATA;508	21616	30-DEC-2005	10:07:19.00
BIO2_95.SASEB\$DATA;514	24036	30-DEC-2005	10:07:28.98
BIO2_96.SASEB\$DATA;322	26071	30-DEC-2005	10:07:38.26
BIO2_97.SASEB\$DATA;308	23926	30-DEC-2005	10:07:49.46
BIO2_98.SASEB\$DATA;777	24256	10-JAN-2006	07:33:12.63
BIO2_99.SASEB\$DATA;816	25631	10-JAN-2006	07:29:15.11
BIO3_00.SASEB\$DATA;554	1370	25-JAN-2006	10:36:15.66
BIO3_01.SASEB\$DATA;495	1777	30-DEC-2005	10:11:43.52
BIO3_02.SASEB\$DATA;504	1666	30-DEC-2005	10:11:44.42
BIO3_03.SASEB\$DATA;990	1814	17-JAN-2007	23:01:28.16
BIO3_04.SASEB\$DATA;772	1481	17-JAN-2007	23:01:28.23
BIO3_05.SASEB\$DATA;787			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

BIO3_06.SASEB\$DATA;789	1481	17-JAN-2008	23:02:17.76
BIO3_07.SASEB\$DATA;538	2945	21-JUN-2009	12:36:08.14
BIO3_08.SASEB\$DATA;413	3073	21-JUN-2009	12:36:11.32
BIO3_09.SASEB\$DATA;154	5697	24-AUG-2009	23:03:10.26
BIO3_80.SASEB\$DATA;2	2433	24-AUG-2009	23:03:10.33
BIO3_81.SASEB\$DATA;2	38	30-DEC-2005	10:11:32.61
BIO3_82.SASEB\$DATA;2	223	30-DEC-2005	10:11:32.94
BIO3_83.SASEB\$DATA;2	112	30-DEC-2005	10:11:33.40
BIO3_84.SASEB\$DATA;5	112	30-DEC-2005	10:11:33.70
BIO3_85.SASEB\$DATA;5	334	30-DEC-2005	10:11:34.24
BIO3_86.SASEB\$DATA;5	445	30-DEC-2005	10:11:34.59
BIO3_87.SASEB\$DATA;5	260	30-DEC-2005	10:11:35.02
BIO3_88.SASEB\$DATA;5	297	30-DEC-2005	10:11:35.53
BIO3_89.SASEB\$DATA;5	260	30-DEC-2005	10:11:35.89
BIO3_90.SASEB\$DATA;5	260	30-DEC-2005	10:11:36.42
BIO3_91.SASEB\$DATA;5	297	30-DEC-2005	10:11:36.76
BIO3_92.SASEB\$DATA;2	371	30-DEC-2005	10:11:37.17
BIO3_93.SASEB\$DATA;50	1000	30-DEC-2005	10:11:37.58
BIO3_94.SASEB\$DATA;500	1111	30-DEC-2005	10:11:38.35
BIO3_95.SASEB\$DATA;512	778	30-DEC-2005	10:11:38.94
BIO3_96.SASEB\$DATA;460	889	30-DEC-2005	10:11:39.44
BIO3_97.SASEB\$DATA;306	963	30-DEC-2005	10:11:39.95
BIO3_98.SASEB\$DATA;775	1074	30-DEC-2005	10:11:40.60
BIO3_99.SASEB\$DATA;813	1037	30-DEC-2005	10:11:41.36
BIO4_00.SASEB\$DATA;8	1111	30-DEC-2005	10:11:42.00
	9087	26-JUN-2007	10:44:20.55

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

BIO4_01.SASEB\$DATA;7	9559	17-APR-2007	10:52:40.99
BIO4_02.SASEB\$DATA;15	9500	12-MAR-2007	16:17:50.34
BIO4_03.SASEB\$DATA;13	11270	10-APR-2006	13:39:55.43
BIO4_04.SASEB\$DATA;339	10916	17-APR-2007	10:52:52.69
BIO4_05.SASEB\$DATA;314	9913	6-SEP-2007	10:45:32.38
BIO4_06.SASEB\$DATA;792	13158	4-MAR-2009	23:00:56.48
BIO4_07.SASEB\$DATA;661	11034	24-AUG-2009	22:59:17.47
BIO4_08.SASEB\$DATA;377	9559	24-AUG-2009	22:59:18.16
BIO4_09.SASEB\$DATA;124	5134	24-AUG-2009	22:59:19.01
BIO4_65.SASEB\$DATA;5	532	10-APR-2006	11:42:59.43
BIO4_66.SASEB\$DATA;4	473	10-APR-2006	14:24:52.34
BIO4_67.SASEB\$DATA;6	1240	10-APR-2006	11:26:40.97
BIO4_68.SASEB\$DATA;5	1476	10-APR-2006	14:27:31.90
BIO4_69.SASEB\$DATA;4	1594	14-AUG-2007	14:58:04.38
BIO4_70.SASEB\$DATA;4	1476	14-AUG-2007	15:23:37.49
BIO4_71.SASEB\$DATA;8	2125	14-AUG-2007	15:23:51.68
BIO4_72.SASEB\$DATA;8	1535	14-AUG-2007	15:23:59.13
BIO4_73.SASEB\$DATA;6	1771	14-AUG-2007	15:24:04.38
BIO4_74.SASEB\$DATA;5	2125	14-AUG-2007	15:24:08.38
BIO4_75.SASEB\$DATA;8	2125	14-AUG-2007	15:24:13.93
BIO4_76.SASEB\$DATA;8	2302	15-AUG-2007	09:24:59.02
BIO4_77.SASEB\$DATA;13	3187	15-AUG-2007	09:25:23.41
BIO4_78.SASEB\$DATA;6	1830	15-AUG-2007	09:25:48.23
BIO4_79.SASEB\$DATA;7	3423	15-AUG-2007	09:25:52.40
BIO4_80.SASEB\$DATA;9	2833	15-AUG-2007	09:26:12.06
BIO4_81.SASEB\$DATA;12			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

BIO4_82.SASEB\$DATA;9	3010	15-AUG-2007	09:26:19.14
BIO4_83.SASEB\$DATA;16	2715	15-AUG-2007	09:26:37.71
BIO4_84.SASEB\$DATA;21	3246	15-AUG-2007	09:26:44.29
BIO4_85.SASEB\$DATA;22	3777	15-AUG-2007	09:26:48.75
BIO4_86.SASEB\$DATA;19	8497	15-AUG-2007	09:27:16.45
BIO4_87.SASEB\$DATA;15	6137	15-AUG-2007	09:27:24.47
BIO4_88.SASEB\$DATA;12	3423	15-AUG-2007	09:27:30.85
BIO4_89.SASEB\$DATA;22	3777	14-AUG-2007	15:25:46.42
BIO4_90.SASEB\$DATA;30	6491	15-AUG-2007	15:20:20.27
BIO4_91.SASEB\$DATA;21	12922	15-AUG-2007	09:29:17.85
BIO4_92.SASEB\$DATA;20	6491	15-AUG-2007	15:20:36.75
BIO4_93.SASEB\$DATA;22	6255	14-AUG-2007	15:59:27.74
BIO4_94.SASEB\$DATA;33	6491	15-AUG-2007	15:20:50.36
BIO4_95.SASEB\$DATA;26	8851	14-AUG-2007	15:59:52.96
BIO4_96.SASEB\$DATA;24	7789	14-AUG-2007	16:00:01.03
BIO4_97.SASEB\$DATA;19	6137	14-AUG-2007	16:00:16.09
BIO4_98.SASEB\$DATA;6	5783	14-AUG-2007	16:05:31.07
BIO4_99.SASEB\$DATA;8	8261	10-APR-2006	13:49:05.89
BIO4_NEW.SASEB\$DATA;1	7671	17-APR-2007	10:51:58.12
BIO4_NO.SASEB\$DATA;2	5193	29-NOV-1995	10:20:56.53
BIO7_78.SASEB\$DATA;2	62	21-NOV-1995	13:53:18.24
BIO7_79.SASEB\$DATA;2	6106	25-APR-1997	08:38:10.12
BIO7_80.SASEB\$DATA;2	8031	25-APR-1997	08:38:24.44
BIO7_81.SASEB\$DATA;2	14356	25-APR-1997	08:38:42.23
BIO7_82.SASEB\$DATA;2	16391	25-APR-1997	08:39:12.93
BIO7_82.SASEB\$DATA;2	15291	25-APR-1997	08:39:48.46

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

BIO7_83.SASEB\$DATA;2	14686	25-APR-1997	08:40:21.71
BIO7_84.SASEB\$DATA;2	11716	25-APR-1997	08:40:54.61
BIO7_85.SASEB\$DATA;2	10286	25-APR-1997	08:41:20.27
BIO7_86.SASEB\$DATA;2	10946	25-APR-1997	08:41:42.14
BIO7_87.SASEB\$DATA;2	11221	25-APR-1997	08:42:09.86
BIO7_88.SASEB\$DATA;2	9901	25-APR-1997	08:42:34.98
BIO7_89.SASEB\$DATA;2	9681	25-APR-1997	08:42:56.35
BIO7_90.SASEB\$DATA;2	7701	25-APR-1997	08:43:17.33
BIO7_91.SASEB\$DATA;2	9021	25-APR-1997	08:43:34.06
BIO7_92.SASEB\$DATA;3	9626	25-APR-1997	08:43:53.55
BIO7_93.SASEB\$DATA;3	7976	25-APR-1997	08:44:14.08
BIO7_94.SASEB\$DATA;3	15236	25-APR-1997	08:44:31.52
BIO7_95.SASEB\$DATA;3	14026	25-APR-1997	08:45:09.29
BIOMAS4.SASEB\$DATA;1	17	22-JAN-1999	15:05:46.79
BIOSHR1.SASEB\$DATA;1	5288	15-FEB-2000	16:01:39.79
BIO_MULL.SASEB\$DATA;1	17	8-SEP-1995	16:12:20.60
CARP.SASEB\$DATA;1	178	5-APR-2006	08:51:26.07
DRUM_CAT.SASEB\$DATA;1	400	9-JAN-2001	11:08:43.14
DRUM_EFT.SASEB\$DATA;1	177	9-JAN-2001	11:08:42.67
DUPDAT1.SASEB\$DATA;3	119	27-OCT-1997	14:42:04.59
DUPDAT2.SASEB\$DATA;11	60	24-OCT-1997	15:37:47.10
EEL.SASEB\$DATA;1	17	14-JUL-2005	09:35:29.52
EFFORT67.SASEB\$DATA;1	17	27-MAR-2006	14:18:11.89
EFFORT68.SASEB\$DATA;1	17	27-MAR-2006	14:18:17.40
EFFORT69.SASEB\$DATA;1	17	27-MAR-2006	14:18:21.73
EFFORT70.SASEB\$DATA;1	17	27-MAR-2006	14:18:25.94
EFFORT71.SASEB\$DATA;1			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

EFFORT72.SASEB\$DATA;1	17	27-MAR-2006	14:18:31.31
EFFORT73.SASEB\$DATA;1	17	27-MAR-2006	14:18:37.08
EFFORT74.SASEB\$DATA;1	17	27-MAR-2006	14:18:44.02
EFFORT75.SASEB\$DATA;1	17	27-MAR-2006	14:18:51.01
EFFORT76.SASEB\$DATA;1	17	27-MAR-2006	14:18:56.90
EFFORT77.SASEB\$DATA;1	17	27-MAR-2006	14:19:01.99
EFFORT78.SASEB\$DATA;1	17	27-MAR-2006	14:19:07.53
EFFORT79.SASEB\$DATA;1	17	27-MAR-2006	14:19:13.03
EFFORT80.SASEB\$DATA;1	17	27-MAR-2006	14:19:18.73
EFFORT81.SASEB\$DATA;1	17	27-MAR-2006	14:19:24.88
EFFORT82.SASEB\$DATA;1	17	27-MAR-2006	14:19:32.19
EFFORT83.SASEB\$DATA;1	33	27-MAR-2006	14:19:42.00
EFFORT84.SASEB\$DATA;1	33	27-MAR-2006	14:19:51.99
EFFORT85.SASEB\$DATA;1	33	27-MAR-2006	14:20:02.74
EFFORT86.SASEB\$DATA;1	33	27-MAR-2006	14:20:12.84
EFFORT87.SASEB\$DATA;1	33	27-MAR-2006	14:20:22.40
EFFORT88.SASEB\$DATA;1	33	27-MAR-2006	14:20:31.72
EFFORT89.SASEB\$DATA;1	33	27-MAR-2006	14:20:40.33
EFFORT90.SASEB\$DATA;1	17	27-MAR-2006	14:20:48.19
EFF_MULL.SASEB\$DATA;1	17	27-MAR-2006	14:22:38.42
FERC_TB.SASEB\$DATA;1	17	8-SEP-1995	16:12:21.01
FIN86_A1.SASEB\$DATA;2	8320	12-JUN-2008	08:05:55.85
FIN86_A2.SASEB\$DATA;4	1871	9-APR-1998	10:31:33.36
FIN86_A3.SASEB\$DATA;3	1321	9-APR-1998	10:32:58.20
FIN86_A4.SASEB\$DATA;2	2696	9-APR-1998	10:33:17.33
	2751	9-APR-1998	10:33:37.16

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

FIN86_A5.SASEB\$DATA;5	3191	9-APR-1998	10:34:01.01
FIN86_A6.SASEB\$DATA;2	3686	9-APR-1998	10:34:22.95
FIN86_A7.SASEB\$DATA;2	2806	9-APR-1998	10:34:46.83
FIN87_A1.SASEB\$DATA;2	1486	9-APR-1998	10:31:35.24
FIN87_A2.SASEB\$DATA;2	1266	9-APR-1998	10:32:59.65
FIN87_A3.SASEB\$DATA;2	1981	9-APR-1998	10:33:20.00
FIN87_A4.SASEB\$DATA;2	2256	9-APR-1998	10:33:39.87
FIN87_A5.SASEB\$DATA;5	2256	9-APR-1998	10:34:04.08
FIN87_A6.SASEB\$DATA;2	2036	9-APR-1998	10:34:26.75
FIN87_A7.SASEB\$DATA;2	1431	9-APR-1998	10:34:49.50
FIN88_A1.SASEB\$DATA;2	1431	9-APR-1998	10:31:36.81
FIN88_A2.SASEB\$DATA;2	1706	9-APR-1998	10:33:01.05
FIN88_A3.SASEB\$DATA;2	1266	9-APR-1998	10:33:22.01
FIN88_A4.SASEB\$DATA;2	2476	9-APR-1998	10:33:42.18
FIN88_A5.SASEB\$DATA;2	2146	9-APR-1998	10:34:06.39
FIN88_A6.SASEB\$DATA;2	2256	9-APR-1998	10:34:28.85
FIN88_A7.SASEB\$DATA;2	1376	9-APR-1998	10:34:51.50
FIN89_A1.SASEB\$DATA;2	1486	9-APR-1998	10:31:38.37
FIN89_A2.SASEB\$DATA;2	1321	9-APR-1998	10:33:02.78
FIN89_A3.SASEB\$DATA;3	1211	9-APR-1998	10:33:23.47
FIN89_A4.SASEB\$DATA;2	2311	9-APR-1998	10:33:44.70
FIN89_A5.SASEB\$DATA;2	1816	9-APR-1998	10:34:08.68
FIN89_A6.SASEB\$DATA;2	1981	9-APR-1998	10:34:31.11
FIN89_A7.SASEB\$DATA;2	1651	9-APR-1998	10:34:53.23
FIN90_A1.SASEB\$DATA;2	1101	9-APR-1998	10:31:39.87
FIN90_A2.SASEB\$DATA;2			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

FIN90_A3.SASEB\$DATA; 2	1101	9-APR-1998	10:33:04.28
FIN90_A4.SASEB\$DATA; 2	1431	9-APR-1998	10:33:24.92
FIN90_A5.SASEB\$DATA; 2	2476	9-APR-1998	10:33:47.12
FIN90_A6.SASEB\$DATA; 2	2091	9-APR-1998	10:34:10.73
FIN90_A7.SASEB\$DATA; 2	2146	9-APR-1998	10:34:33.18
FIN91_A1.SASEB\$DATA; 2	1596	9-APR-1998	10:34:55.02
FIN91_A2.SASEB\$DATA; 2	771	9-APR-1998	10:31:41.24
FIN91_A3.SASEB\$DATA; 2	1541	9-APR-1998	10:33:05.61
FIN91_A4.SASEB\$DATA; 2	1101	9-APR-1998	10:33:26.62
FIN91_A5.SASEB\$DATA; 5	2696	9-APR-1998	10:33:49.63
FIN91_A6.SASEB\$DATA; 2	2421	9-APR-1998	10:34:12.97
FIN91_A7.SASEB\$DATA; 2	1871	9-APR-1998	10:34:35.47
INLAND1.SASEB\$DATA; 1	1596	9-APR-1998	10:34:56.82
INLAND2.SASEB\$DATA; 1	17	16-MAY-1994	14:02:14.92
LABIO07.SASEB\$DATA; 1	17	16-MAY-1994	14:10:16.95
MAUREPAS.SASEB\$DATA; 1	23	5-AUG-2002	14:46:20.54
PIPEFISH.SASEB\$DATA; 1	81	12-NOV-2004	10:11:42.93
RDCATCH.SASEB\$DATA; 2	17	25-MAY-2006	10:18:40.46
SAMPLES.SASEB\$DATA; 5	17	21-SEP-1999	16:21:45.98
SHARK.SASEB\$DATA; 1	705	5-MAR-2001	16:15:01.57
SHAWREQ1.SASEB\$DATA; 1	286	13-APR-1999	11:21:02.34
SHAWREQ3.SASEB\$DATA; 1	65	8-NOV-2004	09:05:48.11
SHK_STA.SASEB\$DATA; 1	145	12-NOV-2004	11:31:30.06
SST_SEIN.SASEB\$DATA; 3	28	13-APR-1999	11:21:44.94
SS_SEINE.SASEB\$DATA; 1	2421	25-JUN-2001	14:56:54.35
STRIPER.SASEB\$DATA; 1	2421	25-JUN-2001	15:31:44.37

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

STURGEN1.SASEB\$DATA;1	56	1-OCT-2002	12:25:26.76
STURGEN2.SASEB\$DATA;1	38	4-MAR-1999	16:26:44.77
TEMP.SASEB\$DATA;3	56	4-MAR-1999	16:26:18.64
	6963	20-JUN-1996	12:51:23.86

Total of 259 files, 1704627 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.FINMASTR]

A2B1_88.SASEB\$DATA;1	1592	11-AUG-1999	13:54:23.28
A2B1_89.SASEB\$DATA;2	1592	11-AUG-1999	13:54:29.82
A2B1_90.SASEB\$DATA;1	2036	11-AUG-1999	13:54:36.06
A2B1_91.SASEB\$DATA;1	2480	11-AUG-1999	13:54:42.94
A2B1_92.SASEB\$DATA;1	1629	11-AUG-1999	13:54:50.32
A2B1_93.SASEB\$DATA;1	1777	11-AUG-1999	13:54:57.73
A2B1_94.SASEB\$DATA;1	1629	11-AUG-1999	13:55:06.16
A2B1_95.SASEB\$DATA;1	1370	11-AUG-1999	13:55:14.29
A2B1_96.SASEB\$DATA;1	1148	11-AUG-1999	13:55:22.86
A2B1_97.SASEB\$DATA;1	1370	11-AUG-1999	13:55:31.68
A2B1_98.SASEB\$DATA;1	1222	11-AUG-1999	10:53:47.44
A2B2_88.SASEB\$DATA;1	1706	11-AUG-1999	13:54:26.68
A2B2_89.SASEB\$DATA;2	1376	11-AUG-1999	13:54:33.09
A2B2_90.SASEB\$DATA;1	1101	11-AUG-1999	13:54:39.75
A2B2_91.SASEB\$DATA;1	1541	11-AUG-1999	13:54:47.22
A2B2_92.SASEB\$DATA;1	1486	11-AUG-1999	13:54:53.96
A2B2_93.SASEB\$DATA;1	1816	11-AUG-1999	13:55:01.65
A2B2_94.SASEB\$DATA;1	1651	11-AUG-1999	13:55:09.66
A2B2_95.SASEB\$DATA;1	1541	11-AUG-1999	13:55:17.90
A2B2_96.SASEB\$DATA;1	2641	11-AUG-1999	13:55:26.25
A2B2_97.SASEB\$DATA;1	2366	11-AUG-1999	13:55:35.46
A2B2_98.SASEB\$DATA;1	1926	11-AUG-1999	10:53:51.88
A2P1_88.SASEB\$DATA;1	153	11-AUG-1999	13:54:29.26

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

A2P1_89.SASEB\$DATA;2	153	11-AUG-1999	13:54:35.39
A2P1_90.SASEB\$DATA;1	153	11-AUG-1999	13:54:42.17
A2P1_91.SASEB\$DATA;1	153	11-AUG-1999	13:54:49.67
A2P1_92.SASEB\$DATA;1	191	11-AUG-1999	13:54:57.16
A2P1_93.SASEB\$DATA;1	191	11-AUG-1999	13:55:05.50
A2P1_94.SASEB\$DATA;1	191	11-AUG-1999	13:55:13.73
A2P1_95.SASEB\$DATA;1	229	11-AUG-1999	13:55:22.09
A2P1_96.SASEB\$DATA;1	229	11-AUG-1999	13:55:30.97
A2P1_97.SASEB\$DATA;1	229	11-AUG-1999	13:55:39.81
A2P1_98.SASEB\$DATA;1	229	11-AUG-1999	10:53:56.77
A2P2_88.SASEB\$DATA;1	77	11-AUG-1999	13:54:29.59
A2P2_89.SASEB\$DATA;2	77	11-AUG-1999	13:54:35.72
A2P2_90.SASEB\$DATA;1	77	11-AUG-1999	13:54:42.54
A2P2_91.SASEB\$DATA;1	77	11-AUG-1999	13:54:50.01
A2P2_92.SASEB\$DATA;1	77	11-AUG-1999	13:54:57.43
A2P2_93.SASEB\$DATA;1	115	11-AUG-1999	13:55:05.90
A2P2_94.SASEB\$DATA;1	115	11-AUG-1999	13:55:14.03
A2P2_95.SASEB\$DATA;1	77	11-AUG-1999	13:55:22.48
A2P2_96.SASEB\$DATA;1	77	11-AUG-1999	13:55:31.41
A2P2_97.SASEB\$DATA;1	77	11-AUG-1999	13:55:40.21
A2P2_98.SASEB\$DATA;1	77	11-AUG-1999	10:53:57.15
BIO2T92.SASEB\$DATA;1	56	11-MAR-1994	09:14:49.00
BRINE1.SASEB\$DATA;1	25	16-AUG-1994	09:57:26.83
BRINE2.SASEB\$DATA;2	25	16-AUG-1994	13:01:49.55
DAVE.SASEB\$DATA;1	221	17-SEP-1998	15:13:52.20
PHSTEM10.SASEB\$DATA;1	349	15-AUG-1994	16:46:22.89

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

TEST.SASEB\$DATA;2 44 28-APR-1994 13:27:17.64

Total of 50 files, 40740 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.LALAN]

CAT_MU97.SASEB\$DATA;266	705	25-NOV-1997	23:01:44.38
CAT_MU98.SASEB\$DATA;255	641	27-NOV-1998	23:00:19.00
CAT_MU99.SASEB\$DATA;1	577	5-FEB-1999	16:46:28.55
CAT_RS97.SASEB\$DATA;266	257	25-NOV-1997	23:01:43.69
CAT_SS97.SASEB\$DATA;270	321	25-NOV-1997	23:01:42.88
CAT_SS98.SASEB\$DATA;255	193	27-NOV-1998	23:00:18.83
CAT_SS99.SASEB\$DATA;4	129	5-FEB-1999	16:45:51.79
COMLIC.SASEB\$DATA;3744	13465	24-AUG-2009	23:05:16.22
COMLIC00.SASEB\$DATA;248	9601	17-NOV-2000	09:18:27.28
COMLIC01.SASEB\$DATA;260	9985	14-NOV-2001	22:58:55.91
COMLIC02.SASEB\$DATA;264	9601	19-NOV-2002	09:46:29.44
COMLIC03.SASEB\$DATA;249	8897	14-NOV-2003	22:59:42.86
COMLIC04.SASEB\$DATA;262	8577	12-NOV-2004	23:00:01.85
COMLIC05.SASEB\$DATA;258	7809	14-NOV-2005	23:00:44.59
COMLIC06.SASEB\$DATA;265	6913	14-NOV-2006	23:00:45.52
COMLIC07.SASEB\$DATA;263	6849	17-NOV-2007	08:39:06.97
COMLIC08.SASEB\$DATA;261	6529	15-JAN-2009	14:21:20.63
COMLIC09.SASEB\$DATA;201	6849	24-AUG-2009	22:59:12.17
COMLIC99.SASEB\$DATA;44	9281	2-DEC-1999	15:20:14.39
COMM_OLD.SASEB\$DATA;1	65	6-DEC-2002	15:36:11.09
CONVER.SASEB\$DATA;7	17	6-APR-1998	12:31:08.17
DEALER.SASEB\$DATA;1848	1735	24-AUG-2009	23:05:54.72
DEALER00.SASEB\$DATA;248	897	17-NOV-2000	09:18:27.24

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

DEALER01.SASEB\$DATA;260	897	14-NOV-2001	22:58:55.87
DEALER02.SASEB\$DATA;264	897	19-NOV-2002	09:46:29.38
DEALER03.SASEB\$DATA;249	961	14-NOV-2003	22:59:42.80
DEALER04.SASEB\$DATA;262	961	12-NOV-2004	23:00:01.71
DEALER05.SASEB\$DATA;258	897	14-NOV-2005	23:00:44.02
DEALER06.SASEB\$DATA;265	833	14-NOV-2006	23:00:45.08
DEALER07.SASEB\$DATA;263	897	17-NOV-2007	08:39:06.86
DEALER08.SASEB\$DATA;260	833	19-DEC-2008	12:53:53.80
DEALER09.SASEB\$DATA;201	897	24-AUG-2009	22:59:11.47
DEALER91.SASEB\$DATA;4	852	18-JUN-1997	08:58:30.55
DEALER92.SASEB\$DATA;3	881	18-JUN-1997	08:59:26.17
DEALER93.SASEB\$DATA;4	852	18-JUN-1997	09:00:21.61
DEALER94.SASEB\$DATA;16	1079	16-SEP-1997	11:36:22.33
DEALER95.SASEB\$DATA;9	1079	16-SEP-1997	11:36:34.10
DEALER96.SASEB\$DATA;14	1128	16-SEP-1997	11:36:45.14
DEALER97.SASEB\$DATA;9	1079	2-DEC-1997	08:57:03.97
DEALER98.SASEB\$DATA;4	1153	25-NOV-1998	09:32:37.33
DEALER99.SASEB\$DATA;180	1089	2-DEC-1999	15:20:14.34
DEALIC.SASEB\$DATA;1	595	25-JUL-2002	15:28:27.39
DEALLIC.SASEB\$DATA;2	631	12-DEC-2001	08:46:47.42
DEALOG97.SASEB\$DATA;156	223	6-APR-1998	23:01:21.48
DEALOG98.SASEB\$DATA;212	186	27-NOV-1998	23:00:22.25
ENF_SRCH.SASEB\$DATA;2	23	24-JUL-1995	12:51:57.05
FRESH.SASEB\$DATA;2	1051	2-FEB-2005	08:46:31.34
FRESH00.SASEB\$DATA;248	961	17-NOV-2000	09:18:27.43
FRESH01.SASEB\$DATA;260	833	14-NOV-2001	22:58:56.06

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

FRESH02.SASEB\$DATA;264	833	19-NOV-2002	09:46:29.70
FRESH03.SASEB\$DATA;249	961	14-NOV-2003	22:59:43.10
FRESH04.SASEB\$DATA;262	961	12-NOV-2004	23:00:02.50
FRESH05.SASEB\$DATA;258	897	14-NOV-2005	23:00:45.95
FRESH06.SASEB\$DATA;265	897	14-NOV-2006	23:00:47.01
FRESH07.SASEB\$DATA;263	769	17-NOV-2007	08:39:07.68
FRESH08.SASEB\$DATA;260	705	19-DEC-2008	12:53:54.14
FRESH09.SASEB\$DATA;201	769	24-AUG-2009	22:59:14.12
FRESH99.SASEB\$DATA;63	65	2-DEC-1999	15:20:14.56
GUIDE00.SASEB\$DATA;248	257	17-NOV-2000	09:18:27.40
GUIDE01.SASEB\$DATA;260	321	14-NOV-2001	22:58:56.02
GUIDE02.SASEB\$DATA;264	65	19-NOV-2002	09:46:29.65
GUIDE03.SASEB\$DATA;249	65	14-NOV-2003	22:59:43.04
GUIDE04.SASEB\$DATA;262	65	12-NOV-2004	23:00:02.42
GUIDE05.SASEB\$DATA;258	65	14-NOV-2005	23:00:45.42
GUIDE06.SASEB\$DATA;265	65	14-NOV-2006	23:00:46.72
GUIDE07.SASEB\$DATA;263	65	17-NOV-2007	08:39:07.61
GUIDE08.SASEB\$DATA;260	65	19-DEC-2008	12:53:54.08
GUIDE09.SASEB\$DATA;201	385	24-AUG-2009	22:59:13.66
GUIDE99.SASEB\$DATA;131	257	2-DEC-1999	15:20:14.51
LALAN_91.SASEB\$DATA;1	2901	8-JUL-1994	16:11:14.07
LALAN_92.SASEB\$DATA;1	3994	9-FEB-1994	13:57:22.16
LALAN_93.SASEB\$DATA;61	3598	16-MAY-1994	23:01:20.47
LALAN_94.SASEB\$DATA;282	3400	15-MAR-1995	08:31:37.89
LALAN_95.SASEB\$DATA;302	3235	25-MAR-1996	10:46:24.58
LALAN_96.SASEB\$DATA;480			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

LALAN_97.SASEB\$DATA;315	3268	15-FEB-1999	15:11:42.94
LALAN_98.SASEB\$DATA;350	3301	6-APR-1998	23:01:06.85
LALAN_99.SASEB\$DATA;2	3664	7-JUN-1999	23:00:17.29
LANEST96.SASEB\$DATA;20	34	4-MAR-1999	15:54:17.54
LANEST97.SASEB\$DATA;12	1225	18-APR-1997	10:43:13.37
LANEST98.SASEB\$DATA;13	1310	25-MAR-1998	13:31:10.01
LANMAS00.SASEB\$DATA;1	1497	27-JUL-1999	11:50:38.55
LANMAS77.SASEB\$DATA;3	1921	4-SEP-2001	09:18:10.05
LANMAS78.SASEB\$DATA;3	641	18-JUN-1997	09:25:23.99
LANMAS79.SASEB\$DATA;4	609	18-JUN-1997	09:25:25.24
LANMAS80.SASEB\$DATA;4	577	18-JUN-1997	09:25:26.49
LANMAS81.SASEB\$DATA;4	529	18-JUN-1997	09:25:28.05
LANMAS82.SASEB\$DATA;4	545	18-JUN-1997	09:25:29.25
LANMAS83.SASEB\$DATA;4	625	18-JUN-1997	09:25:30.49
LANMAS84.SASEB\$DATA;5	673	18-JUN-1997	09:25:31.83
LANMAS85.SASEB\$DATA;5	785	18-JUN-1997	09:25:33.14
LANMAS86.SASEB\$DATA;5	945	18-JUN-1997	09:25:34.60
LANMAS87.SASEB\$DATA;5	1233	18-JUN-1997	09:25:36.31
LANMAS88.SASEB\$DATA;5	1457	18-JUN-1997	09:25:38.34
LANMAS89.SASEB\$DATA;5	1457	18-JUN-1997	09:25:40.66
LANMAS90.SASEB\$DATA;6	1473	18-JUN-1997	09:25:42.91
LANMAS91.SASEB\$DATA;7	1441	7-OCT-1997	08:25:07.66
LANMAS92.SASEB\$DATA;5	1781	7-OCT-1997	08:25:53.44
LANMAS93.SASEB\$DATA;6	1881	7-OCT-1997	08:28:58.34
LANMAS94.SASEB\$DATA;6	1801	7-OCT-1997	08:29:24.00
	1721	30-SEP-1997	08:29:02.26

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

LANMAS95.SASEB\$DATA;7	1661	30-SEP-1997	08:30:00.68
LANMAS96.SASEB\$DATA;4	1581	30-SEP-1997	08:30:11.46
LANMAS97.SASEB\$DATA;3	1621	26-JUN-1998	09:40:42.68
LANMAS98.SASEB\$DATA;2	1681	5-APR-1999	08:52:58.62
LANMAS99.SASEB\$DATA;1	2121	4-SEP-2001	09:16:54.56
LAVESSEL.SASEB\$DATA;4	143641	9-SEP-2003	08:52:41.40
NICEVL93.SASEB\$DATA;1	59	12-JUL-1994	11:17:57.22
OYSHAR00.SASEB\$DATA;156	577	17-NOV-2000	09:18:27.46
OYSHAR01.SASEB\$DATA;260	577	14-NOV-2001	22:58:56.09
OYSHAR02.SASEB\$DATA;264	577	19-NOV-2002	09:46:29.80
OYSHAR03.SASEB\$DATA;249	577	14-NOV-2003	22:59:43.15
OYSHAR04.SASEB\$DATA;262	577	12-NOV-2004	23:00:02.58
OYSHAR05.SASEB\$DATA;258	641	14-NOV-2005	23:00:46.74
OYSHAR06.SASEB\$DATA;265	513	14-NOV-2006	23:00:47.45
OYSHAR07.SASEB\$DATA;263	577	17-NOV-2007	08:39:07.76
OYSHAR08.SASEB\$DATA;260	577	19-DEC-2008	12:53:54.19
OYSHAR09.SASEB\$DATA;201	577	24-AUG-2009	22:59:14.66
OYSTERS.SASEB\$DATA;1	1373	30-APR-1999	14:13:34.71
OYSTERS2.SASEB\$DATA;1	593	12-MAY-1999	15:38:27.57
PERMIT00.SASEB\$DATA;248	321	17-NOV-2000	09:18:27.36
PERMIT01.SASEB\$DATA;260	321	14-NOV-2001	22:58:55.98
PERMIT02.SASEB\$DATA;264	257	19-NOV-2002	09:46:29.59
PERMIT03.SASEB\$DATA;249	321	14-NOV-2003	22:59:42.99
PERMIT04.SASEB\$DATA;262	385	12-NOV-2004	23:00:02.34
PERMIT05.SASEB\$DATA;258	321	14-NOV-2005	23:00:45.35
PERMIT06.SASEB\$DATA;265			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

PERMIT07.SASEB\$DATA;263	321	14-NOV-2006	23:00:46.57
PERMIT08.SASEB\$DATA;260	321	17-NOV-2007	08:39:07.17
PERMIT09.SASEB\$DATA;201	257	19-DEC-2008	12:53:54.01
PERMIT99.SASEB\$DATA;132	257	24-AUG-2009	22:59:13.12
PMT_MU97.SASEB\$DATA;268	385	2-DEC-1999	15:20:14.46
PMT_MU98.SASEB\$DATA;257	296	25-NOV-1997	23:01:41.98
PMT_MU99.SASEB\$DATA;9	237	27-NOV-1998	23:00:18.49
PMT_RS97.SASEB\$DATA;268	178	5-FEB-1999	15:56:55.27
PMT_SENT.SASEB\$DATA;1	119	25-NOV-1997	23:01:41.37
PMT_SS97.SASEB\$DATA;268	17	30-SEP-1999	11:04:13.86
PMT_SS98.SASEB\$DATA;257	119	25-NOV-1997	23:01:40.81
PMT_SS99.SASEB\$DATA;9	119	27-NOV-1998	23:00:18.25
REPANP00.SASEB\$DATA;91	60	5-FEB-1999	15:56:55.47
REPANP01.SASEB\$DATA;260	257	17-NOV-2000	09:18:27.50
REPANP02.SASEB\$DATA;264	257	14-NOV-2001	22:58:56.12
REPANP03.SASEB\$DATA;249	321	19-NOV-2002	09:46:29.86
REPANP04.SASEB\$DATA;262	321	14-NOV-2003	22:59:43.20
REPANP05.SASEB\$DATA;258	385	12-NOV-2004	23:00:02.64
REPANP06.SASEB\$DATA;265	321	14-NOV-2005	23:00:47.22
REPANP07.SASEB\$DATA;263	257	14-NOV-2006	23:00:48.07
REPANP08.SASEB\$DATA;260	257	17-NOV-2007	08:39:07.84
REPANP09.SASEB\$DATA;201	193	19-DEC-2008	12:53:54.24
RSNAPPER.SASEB\$DATA;1	193	24-AUG-2009	22:59:15.08
SCREEN.SASEB\$CATALOG;1	391	2-OCT-1998	12:09:12.19
SHEDDR00.SASEB\$DATA;248	49	18-DEC-2003	09:34:18.68
	129	17-NOV-2000	09:18:27.32

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

SHEDDR01.SASEB\$DATA;260	129	14-NOV-2001	22:58:55.94
SHEDDR02.SASEB\$DATA;264	129	19-NOV-2002	09:46:29.53
SHEDDR03.SASEB\$DATA;249	129	14-NOV-2003	22:59:42.93
SHEDDR04.SASEB\$DATA;262	129	12-NOV-2004	23:00:01.93
SHEDDR05.SASEB\$DATA;258	129	14-NOV-2005	23:00:45.11
SHEDDR06.SASEB\$DATA;265	65	14-NOV-2006	23:00:46.04
SHEDDR07.SASEB\$DATA;263	65	17-NOV-2007	08:39:07.09
SHEDDR08.SASEB\$DATA;260	65	19-DEC-2008	12:53:53.95
SHEDDR09.SASEB\$DATA;201	65	24-AUG-2009	22:59:12.67
SHEDDR98.SASEB\$DATA;2	129	25-NOV-1998	09:32:43.24
SHEDDR99.SASEB\$DATA;173	129	2-DEC-1999	15:20:14.44
SHGR2000.SASEB\$DATA;1	1801	19-JUL-2005	09:18:50.79
SHGR2001.SASEB\$DATA;1	1801	19-JUL-2005	09:18:53.69
SHGR2002.SASEB\$DATA;1	1701	19-JUL-2005	09:18:57.30
SHGR2003.SASEB\$DATA;1	1541	19-JUL-2005	09:19:00.16
SHGR2004.SASEB\$DATA;1	1361	19-JUL-2005	09:19:02.55
SHGR2005.SASEB\$DATA;1	1141	19-JUL-2005	09:19:05.08
SNTPMT99.SASEB\$DATA;1	193	11-OCT-1999	15:46:35.99
SPOUSE04.SASEB\$DATA;255	65	12-NOV-2004	23:00:02.73
SPOUSE05.SASEB\$DATA;258	65	14-NOV-2005	23:00:47.67
SPOUSE06.SASEB\$DATA;265	65	14-NOV-2006	23:00:48.56
SPOUSE07.SASEB\$DATA;263	65	17-NOV-2007	08:39:07.93
SPOUSE08.SASEB\$DATA;260	65	19-DEC-2008	12:53:54.30
SPOUSE09.SASEB\$DATA;201	65	24-AUG-2009	22:59:15.41
STURGEON.SASEB\$DATA;1	17	8-JUN-1999	09:29:41.75
TEST.SASEB\$DATA;15	289	27-OCT-1998	13:43:50.37

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

TIP11_00.SASEB\$DATA;3	45	1-MAY-2001	08:05:01.11
TIP11_01.SASEB\$DATA;5	45	27-MAY-2003	13:29:12.43
TIP11_02.SASEB\$DATA;3	45	2-APR-2003	08:33:07.56
TIP11_03.SASEB\$DATA;4	45	26-MAR-2004	14:13:49.48
TIP11_94.SASEB\$DATA;24	133	31-JAN-1996	10:37:17.30
TIP11_95.SASEB\$DATA;17	177	23-JUN-1997	13:38:12.25
TIP11_96.SASEB\$DATA;16	133	5-MAY-1997	10:51:56.83
TIP11_97.SASEB\$DATA;15	89	2-MAR-1998	08:19:58.44
TIP11_98.SASEB\$DATA;6	45	5-FEB-1999	13:35:27.56
TIP11_99.SASEB\$DATA;5	23	29-DEC-2000	08:46:45.10
TIP12_00.SASEB\$DATA;3	33	1-MAY-2001	08:05:01.60
TIP12_01.SASEB\$DATA;5	33	27-MAY-2003	13:29:13.13
TIP12_02.SASEB\$DATA;3	33	2-APR-2003	08:33:09.10
TIP12_03.SASEB\$DATA;4	33	26-MAR-2004	14:13:50.15
TIP12_94.SASEB\$DATA;22	65	31-JAN-1996	10:37:19.40
TIP12_95.SASEB\$DATA;17	129	23-JUN-1997	13:38:13.14
TIP12_96.SASEB\$DATA;16	65	5-MAY-1997	10:51:57.71
TIP12_97.SASEB\$DATA;15	33	2-MAR-1998	08:19:59.27
TIP12_98.SASEB\$DATA;6	33	5-FEB-1999	13:35:28.29
TIP12_99.SASEB\$DATA;5	17	29-DEC-2000	08:46:45.91
TIP13_00.SASEB\$DATA;3	37	1-MAY-2001	08:05:02.16
TIP13_01.SASEB\$DATA;5	37	27-MAY-2003	13:29:13.85
TIP13_02.SASEB\$DATA;3	37	2-APR-2003	08:33:11.03
TIP13_03.SASEB\$DATA;4	37	26-MAR-2004	14:13:50.89
TIP13_94.SASEB\$DATA;21	109	31-JAN-1996	10:37:21.24
TIP13_95.SASEB\$DATA;17			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

TIP13_96.SASEB\$DATA;16	163	23-JUN-1997	13:38:14.02
TIP13_97.SASEB\$DATA;15	109	5-MAY-1997	10:51:58.49
TIP13_98.SASEB\$DATA;6	55	2-MAR-1998	08:19:59.95
TIP13_99.SASEB\$DATA;5	37	5-FEB-1999	13:35:28.98
TIP21_00.SASEB\$DATA;5	37	29-DEC-2000	08:46:46.73
TIP21_01.SASEB\$DATA;7	931	21-MAY-2001	11:24:53.48
TIP21_02.SASEB\$DATA;3	901	27-MAY-2003	13:29:14.74
TIP21_03.SASEB\$DATA;4	1201	2-APR-2003	08:33:11.72
TIP21_04.SASEB\$DATA;4	991	26-MAR-2004	14:13:51.78
TIP21_94.SASEB\$DATA;24	2221	23-JUN-1997	13:57:02.31
TIP21_95.SASEB\$DATA;18	3481	23-JUN-1997	13:44:16.80
TIP21_96.SASEB\$DATA;18	2611	23-JUN-1997	14:43:25.46
TIP21_97.SASEB\$DATA;15	2281	2-MAR-1998	08:20:00.80
TIP21_98.SASEB\$DATA;6	901	5-FEB-1999	13:35:29.95
TIP21_99.SASEB\$DATA;5	631	29-DEC-2000	08:46:47.62
TMPPLAN.SASEB\$DATA;1	6781	11-JAN-2001	13:07:01.55
TSPECIES.SASEB\$DATA;10	93	23-FEB-2001	10:45:57.25
TTDEAL99.SASEB\$DATA;3	65	19-NOV-1998	13:32:27.41
USCG2000.SASEB\$DATA;2	29889	24-APR-2001	12:59:46.79
USCG2002.SASEB\$DATA;3	29313	10-JUL-2002	14:55:56.57
USCG2003.SASEB\$DATA;1	206721	23-JUN-2003	09:12:30.00
USCG2004.SASEB\$DATA;1	205761	15-JUN-2005	14:13:49.32
USCG2005.SASEB\$DATA;1	243329	19-FEB-2008	09:22:05.05
USCG2006.SASEB\$DATA;1	251649	18-FEB-2008	13:36:12.35
USCG2007.SASEB\$DATA;1	260929	18-FEB-2008	13:41:42.54
USCG2008.SASEB\$DATA;3	344001	17-APR-2009	15:44:56.29

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

VESLIC00.SASEB\$DATA;14	8705	30-NOV-2000	13:06:08.10
VESLIC01.SASEB\$DATA;25	8961	15-NOV-2001	14:43:11.98
VESLIC02.SASEB\$DATA;24	8705	25-NOV-2002	09:44:15.79
VESLIC03.SASEB\$DATA;33	8129	17-NOV-2003	10:05:07.16
VESLIC04.SASEB\$DATA;25	7681	30-NOV-2004	09:33:07.81
VESLIC05.SASEB\$DATA;15	7041	18-NOV-2005	08:08:36.18
VESLIC06.SASEB\$DATA;21	6209	18-FEB-2008	14:10:40.41
VESLIC07.SASEB\$DATA;17	5953	8-MAY-2008	09:09:56.38
VESLIC08.SASEB\$DATA;21	5569	2-APR-2009	15:19:12.26
VESLIC09.SASEB\$DATA;23	5697	10-AUG-2009	15:08:20.49

Total of 238 files, 2042400 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.MASTER]

A4P2_STA.SASEB\$DATA;1	26	17-FEB-2000	11:37:59.53
MASBAK.SASEB\$DATA;1	210	16-APR-2007	12:39:39.00
MASTER.SASEB\$DATA;10	331	28-JUN-2005	11:50:07.63
OYSTMAST.SASEB\$DATA;1	17	8-JUN-1995	15:17:34.11
SCREEN.SASEB\$CATALOG;1	49	9-FEB-1994	14:05:10.67
TEST.SASEB\$DATA;2	26	11-JUN-1999	09:36:35.38

Total of 6 files, 659 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.PHSMaster]

A6_PHS.SASEB\$DATA;1	457	13-DEC-1999	14:20:58.49
AIRPLANE.SASEB\$DATA;2	49	11-JUN-1998	09:09:20.03
EFH_PHS.SASEB\$DATA;3	1445	22-JAN-2003	16:00:42.56
PHS1_00.SASEB\$DATA;561	875	25-JAN-2006	10:43:50.92
PHS1_01.SASEB\$DATA;499	989	25-JAN-2006	14:05:46.04
PHS1_02.SASEB\$DATA;508	951	30-DEC-2005	10:23:13.97
PHS1_03.SASEB\$DATA;992	913	17-JAN-2007	23:01:33.39
PHS1_04.SASEB\$DATA;777	799	17-JAN-2007	23:01:33.45
PHS1_05.SASEB\$DATA;789	799	17-JAN-2008	23:02:21.32
PHS1_06.SASEB\$DATA;792	837	19-JAN-2009	23:03:04.84
PHS1_07.SASEB\$DATA;540	837	12-FEB-2009	23:04:42.41
PHS1_08.SASEB\$DATA;414	837	24-AUG-2009	23:03:26.31
PHS1_09.SASEB\$DATA;155	609	24-AUG-2009	23:03:26.38
PHS1_66.SASEB\$DATA;2	39	30-DEC-2005	10:22:54.56
PHS1_67.SASEB\$DATA;2	305	30-DEC-2005	10:22:54.88
PHS1_68.SASEB\$DATA;2	305	30-DEC-2005	10:22:55.35
PHS1_69.SASEB\$DATA;2	267	30-DEC-2005	10:22:55.61
PHS1_70.SASEB\$DATA;2	419	30-DEC-2005	10:22:56.17
PHS1_71.SASEB\$DATA;2	495	30-DEC-2005	10:22:56.53
PHS1_72.SASEB\$DATA;2	647	30-DEC-2005	10:22:56.97
PHS1_73.SASEB\$DATA;2	1027	30-DEC-2005	10:22:57.46
PHS1_74.SASEB\$DATA;2	1065	30-DEC-2005	10:22:58.31
PHS1_75.SASEB\$DATA;2	989	30-DEC-2005	10:22:58.95

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

PHS1_76.SASEB\$DATA;2	799	30-DEC-2005	10:22:59.56
PHS1_77.SASEB\$DATA;2	723	30-DEC-2005	10:23:00.07
PHS1_78.SASEB\$DATA;2	761	30-DEC-2005	10:23:00.67
PHS1_79.SASEB\$DATA;2	685	30-DEC-2005	10:23:01.20
PHS1_80.SASEB\$DATA;2	761	30-DEC-2005	10:23:01.86
PHS1_81.SASEB\$DATA;2	837	30-DEC-2005	10:23:02.51
PHS1_82.SASEB\$DATA;2	799	30-DEC-2005	10:23:03.04
PHS1_83.SASEB\$DATA;2	761	30-DEC-2005	10:23:03.58
PHS1_84.SASEB\$DATA;2	723	30-DEC-2005	10:23:04.16
PHS1_85.SASEB\$DATA;2	761	30-DEC-2005	10:23:04.67
PHS1_86.SASEB\$DATA;2	647	30-DEC-2005	10:23:05.40
PHS1_87.SASEB\$DATA;2	761	30-DEC-2005	10:23:05.84
PHS1_88.SASEB\$DATA;2	799	30-DEC-2005	10:23:06.31
PHS1_89.SASEB\$DATA;2	723	30-DEC-2005	10:23:06.87
PHS1_90.SASEB\$DATA;2	761	30-DEC-2005	10:23:07.52
PHS1_91.SASEB\$DATA;2	761	30-DEC-2005	10:23:08.09
PHS1_92.SASEB\$DATA;2	571	30-DEC-2005	10:23:08.59
PHS1_93.SASEB\$DATA;51	647	30-DEC-2005	10:23:09.07
PHS1_94.SASEB\$DATA;505	685	30-DEC-2005	10:23:09.54
PHS1_95.SASEB\$DATA;517	723	30-DEC-2005	10:23:10.21
PHS1_96.SASEB\$DATA;320	723	30-DEC-2005	10:23:10.63
PHS1_97.SASEB\$DATA;306	723	30-DEC-2005	10:23:11.10
PHS1_98.SASEB\$DATA;779	799	30-DEC-2005	10:23:11.56
PHS1_99.SASEB\$DATA;815	837	30-DEC-2005	10:23:12.25
PHS2_00.SASEB\$DATA;554	533	25-JAN-2006	10:43:49.69
PHS2_01.SASEB\$DATA;496			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

PHS2_02.SASEB\$DATA;504	571	25-JAN-2006	11:10:13.72
	533	30-DEC-2005	10:27:53.85
PHS2_03.SASEB\$DATA;990			
	533	17-JAN-2007	23:01:36.49
PHS2_04.SASEB\$DATA;772			
	533	17-JAN-2007	23:01:36.59
PHS2_05.SASEB\$DATA;787			
	495	17-JAN-2008	23:02:24.27
PHS2_06.SASEB\$DATA;788			
	533	19-JAN-2009	23:03:08.59
PHS2_07.SASEB\$DATA;537			
	571	12-FEB-2009	23:04:50.22
PHS2_08.SASEB\$DATA;412			
	533	24-AUG-2009	23:03:32.14
PHS2_09.SASEB\$DATA;153			
	343	24-AUG-2009	23:03:32.63
PHS2_86.SASEB\$DATA;2			
	533	30-DEC-2005	10:27:46.82
PHS2_87.SASEB\$DATA;2			
	457	30-DEC-2005	10:27:47.23
PHS2_88.SASEB\$DATA;2			
	419	30-DEC-2005	10:27:47.54
PHS2_89.SASEB\$DATA;2			
	457	30-DEC-2005	10:27:47.97
PHS2_90.SASEB\$DATA;2			
	457	30-DEC-2005	10:27:48.36
PHS2_91.SASEB\$DATA;2			
	457	30-DEC-2005	10:27:48.84
PHS2_92.SASEB\$DATA;2			
	457	30-DEC-2005	10:27:49.31
PHS2_93.SASEB\$DATA;50			
	457	30-DEC-2005	10:27:49.73
PHS2_94.SASEB\$DATA;501			
	457	30-DEC-2005	10:27:50.17
PHS2_95.SASEB\$DATA;513			
	457	30-DEC-2005	10:27:50.54
PHS2_96.SASEB\$DATA;320			
	457	30-DEC-2005	10:27:51.05
PHS2_97.SASEB\$DATA;306			
	457	30-DEC-2005	10:27:51.36
PHS2_98.SASEB\$DATA;775			
	495	30-DEC-2005	10:27:51.94
PHS2_99.SASEB\$DATA;814			
	533	30-DEC-2005	10:27:52.52
PHS3_00.SASEB\$DATA;533			
	457	25-JAN-2006	08:32:45.62
PHS3_01.SASEB\$DATA;497			
	457	25-JAN-2006	14:05:44.33
PHS3_02.SASEB\$DATA;504			
	533	30-DEC-2005	10:31:26.81

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

PHS3_03.SASEB\$DATA;990	495	17-JAN-2007	23:01:38.94
PHS3_04.SASEB\$DATA;772	533	17-JAN-2007	23:01:39.05
PHS3_05.SASEB\$DATA;787	457	17-JAN-2008	23:02:26.71
PHS3_06.SASEB\$DATA;788	533	19-JAN-2009	23:03:11.61
PHS3_07.SASEB\$DATA;537	495	12-FEB-2009	23:04:56.84
PHS3_08.SASEB\$DATA;412	533	24-AUG-2009	23:03:37.87
PHS3_09.SASEB\$DATA;153	381	24-AUG-2009	23:03:38.31
PHS3_92.SASEB\$DATA;2	343	30-DEC-2005	10:31:21.68
PHS3_93.SASEB\$DATA;2	457	30-DEC-2005	10:31:22.04
PHS3_94.SASEB\$DATA;3	495	30-DEC-2005	10:31:22.44
PHS3_95.SASEB\$DATA;3	153	30-DEC-2005	10:31:22.98
PHS3_96.SASEB\$DATA;3	305	30-DEC-2005	10:31:23.58
PHS3_97.SASEB\$DATA;2	381	30-DEC-2005	10:31:23.95
PHS3_98.SASEB\$DATA;269	495	30-DEC-2005	10:31:24.65
PHS3_99.SASEB\$DATA;532	457	30-DEC-2005	10:31:25.10
PHS4_00.SASEB\$DATA;2	193	5-OCT-2004	15:02:49.83
PHS4_01.SASEB\$DATA;1	321	5-OCT-2004	15:01:24.72
PHS4_02.SASEB\$DATA;4	257	18-MAY-2006	14:49:25.02
PHS4_03.SASEB\$DATA;4	193	19-OCT-2005	14:38:05.89
PHS4_04.SASEB\$DATA;252	257	18-MAY-2006	15:18:42.70
PHS4_05.SASEB\$DATA;236	257	10-APR-2006	08:51:49.91
PHS4_06.SASEB\$DATA;752	321	4-MAR-2009	23:02:11.91
PHS4_07.SASEB\$DATA;657	257	24-AUG-2009	23:00:29.23
PHS4_08.SASEB\$DATA;374	257	24-AUG-2009	23:00:29.37
PHS4_09.SASEB\$DATA;124	193	24-AUG-2009	23:00:29.47
PHS4_90.SASEB\$DATA;1			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

PHS4_91.SASEB\$DATA;1	65	5-OCT-2004	15:08:02.35
PHS4_92.SASEB\$DATA;1	65	5-OCT-2004	15:07:43.77
PHS4_93.SASEB\$DATA;1	65	5-OCT-2004	15:07:26.28
PHS4_94.SASEB\$DATA;1	65	5-OCT-2004	15:07:07.95
PHS4_95.SASEB\$DATA;1	65	5-OCT-2004	15:06:47.62
PHS4_96.SASEB\$DATA;1	65	5-OCT-2004	15:06:28.45
PHS4_97.SASEB\$DATA;1	65	5-OCT-2004	15:06:04.86
PHS4_98.SASEB\$DATA;1	65	5-OCT-2004	15:05:32.21
PHS4_99.SASEB\$DATA;1	129	5-OCT-2004	15:05:12.61
PHS6_81.SASEB\$DATA;1	193	5-OCT-2004	15:04:48.88
PHS6_82.SASEB\$DATA;1	2041	9-FEB-1994	14:07:58.21
PHS6_83.SASEB\$DATA;1	2161	9-FEB-1994	14:08:05.95
PHS6_84.SASEB\$DATA;1	1921	9-FEB-1994	14:08:14.10
PHS6_85.SASEB\$DATA;1	1621	9-FEB-1994	14:08:21.56
PHS6_86.SASEB\$DATA;1	2041	9-FEB-1994	14:08:27.83
PHS6_87.SASEB\$DATA;1	1981	9-FEB-1994	14:08:35.60
PHS6_88.SASEB\$DATA;1	1981	9-FEB-1994	14:08:43.11
PHS6_89.SASEB\$DATA;1	6121	9-FEB-1994	14:08:50.79
PHS6_90.SASEB\$DATA;1	10021	9-FEB-1994	14:09:13.57
PHS6_91.SASEB\$DATA;1	12121	9-FEB-1994	14:09:50.90
PHS7_78.SASEB\$DATA;3	11461	9-FEB-1994	14:10:36.01
PHS7_79.SASEB\$DATA;3	257	30-DEC-2005	10:51:26.72
PHS7_80.SASEB\$DATA;3	321	30-DEC-2005	10:51:27.05
PHS7_81.SASEB\$DATA;3	449	30-DEC-2005	10:51:27.42
PHS7_82.SASEB\$DATA;3	449	30-DEC-2005	10:51:27.94
PHS7_82.SASEB\$DATA;3	449	30-DEC-2005	10:51:28.30

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

PHS7_83.SASEB\$DATA;3	449	30-DEC-2005	10:51:28.63
PHS7_84.SASEB\$DATA;3	385	30-DEC-2005	10:51:29.18
PHS7_85.SASEB\$DATA;3	321	30-DEC-2005	10:51:29.77
PHS7_86.SASEB\$DATA;3	321	30-DEC-2005	10:51:30.11
PHS7_87.SASEB\$DATA;3	385	30-DEC-2005	10:51:30.62
PHS7_88.SASEB\$DATA;3	321	30-DEC-2005	10:51:30.97
PHS7_89.SASEB\$DATA;3	321	30-DEC-2005	10:51:31.51
PHS7_90.SASEB\$DATA;3	321	30-DEC-2005	10:51:31.85
PHS7_91.SASEB\$DATA;3	321	30-DEC-2005	10:51:32.38
PHS7_92.SASEB\$DATA;3	321	30-DEC-2005	10:51:32.73
PHS7_93.SASEB\$DATA;3	321	30-DEC-2005	10:51:33.16
PHS7_94.SASEB\$DATA;3	385	30-DEC-2005	10:51:33.67
PHS7_95.SASEB\$DATA;3	385	30-DEC-2005	10:51:34.03
TEST.SASEB\$DATA;2	87	27-APR-1994	14:26:39.45

Total of 139 files, 116801 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.RSHMASTER]

LABMAS1.SASEB\$DATA;2360

12736 24-AUG-2009 22:58:55.47

TROUTAGE.SASEB\$DATA;1

676 31-JUL-2000 11:26:05.11

Total of 2 files, 13412 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.CIS_STATIC.WCHEMASTER]

WCHM7_78.SASEB\$DATA;2	257	30-DEC-2005	10:53:55.22
WCHM7_79.SASEB\$DATA;2	385	30-DEC-2005	10:53:55.57
WCHM7_80.SASEB\$DATA;2	513	30-DEC-2005	10:53:55.93
WCHM7_81.SASEB\$DATA;2	513	30-DEC-2005	10:53:56.38
WCHM7_82.SASEB\$DATA;2	449	30-DEC-2005	10:53:57.14
WCHM7_83.SASEB\$DATA;2	449	30-DEC-2005	10:53:57.48
WCHM7_84.SASEB\$DATA;2	385	30-DEC-2005	10:53:57.99
WCHM7_85.SASEB\$DATA;2	385	30-DEC-2005	10:53:58.42
WCHM7_86.SASEB\$DATA;2	321	30-DEC-2005	10:53:58.85
WCHM7_87.SASEB\$DATA;2	321	30-DEC-2005	10:53:59.21
WCHM7_88.SASEB\$DATA;2	321	30-DEC-2005	10:53:59.59
WCHM7_89.SASEB\$DATA;2	321	30-DEC-2005	10:54:00.17
WCHM7_90.SASEB\$DATA;2	321	30-DEC-2005	10:54:00.70
WCHM7_91.SASEB\$DATA;2	321	30-DEC-2005	10:54:01.14
WCHM7_92.SASEB\$DATA;2	321	30-DEC-2005	10:54:01.54
WCHM7_93.SASEB\$DATA;2	321	30-DEC-2005	10:54:02.05
WCHM7_94.SASEB\$DATA;2	321	30-DEC-2005	10:54:02.38
WCHM7_95.SASEB\$DATA;2	321	30-DEC-2005	10:54:02.77

Total of 18 files, 6546 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory \$3\$DRA0:[USERS.MARINE_USER.PROD.RESEARCH]

AGEBAK07.SASEB\$DATA;1	44865	23-JUL-2007	10:04:47.09
AGEDATA.SASEB\$DATA;4	19	25-AUG-2005	10:30:25.38
AGEMAS02.SASEB\$DATA;26	1057	25-AUG-2005	10:23:57.40
AGEMAS03.SASEB\$DATA;7	1537	25-AUG-2005	10:24:19.88
AGEMAS04.SASEB\$DATA;3	1537	25-AUG-2005	10:24:43.92
AGEMAS05.SASEB\$DATA;3	1857	25-AUG-2005	10:25:07.88
AGEMAS06.SASEB\$DATA;2	1889	30-JUN-2006	07:53:06.64
AGEMAS07.SASEB\$DATA;2	2209	23-JUL-2007	10:05:32.04
AGEMAS08.SASEB\$DATA;2	2433	24-APR-2008	13:29:14.17
AGEMAS09.SASEB\$DATA;1	1281	16-FEB-2009	07:47:22.75
BIOAGE.SASEB\$DATA;3	49	21-JUN-2002	14:26:31.63
BIOSAMP.SASEB\$DATA;8	187	25-AUG-2005	11:35:42.73
BIOTALLY.SASEB\$DATA;3	17	2-APR-2002	09:17:23.22
CRAB1.SASEB\$DATA;2	129	8-FEB-1994	16:05:42.83
CRAB2.SASEB\$DATA;2	65	8-FEB-1994	16:05:43.35
CRAB3.SASEB\$DATA;3	65	7-MAY-1996	10:12:04.80
FORMATS.SASEB\$CATALOG;2	849	8-MAY-2002	14:53:00.05
LABAGE1.SASEB\$DATA;7	45	7-MAY-1997	08:46:49.68
SCREEN.SASEB\$CATALOG;4	577	8-FEB-1994	16:05:43.77
SMPMAS02.SASEB\$DATA;409	6325	25-AUG-2005	11:20:04.22
SMPMAS03.SASEB\$DATA;493	6139	25-AUG-2005	11:20:32.33
SMPMAS04.SASEB\$DATA;620	6139	6-JUN-2006	23:26:31.75
SMPMAS05.SASEB\$DATA;366	6635	6-JUN-2006	23:26:32.37
SMPMAS06.SASEB\$DATA;662	5767	29-JUL-2008	23:33:08.31
SMPMAS07.SASEB\$DATA;514	10541	23-MAR-2009	16:54:09.86
SMPMAS08.SASEB\$DATA;395			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

SMPMAS08.SASEB\$DATA;394	11099	25-AUG-2009	23:07:54.10
SMPMAS09.SASEB\$DATA;144	11099	24-AUG-2009	23:06:58.95
SMPMAS09.SASEB\$DATA;143	5767	25-AUG-2009	23:07:54.76
SPECIES.SASEB\$DATA;2	5767	24-AUG-2009	23:06:59.50
	17	3-MAY-2002	15:59:02.46

Total of 30 files, 135962 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory SAS10:[FISHDB.TRIPTICKET]

AD687_04.SASEB\$DATA;2	65	13-JAN-2000	07:56:08.48
AD687_05.SASEB\$DATA;2	385	13-JAN-2000	07:56:00.08
AD687_06.SASEB\$DATA;2	65	13-JAN-2000	07:55:51.87
AD687_11.SASEB\$DATA;2	513	13-JAN-2000	07:55:36.36
AD786_04.SASEB\$DATA;3	577	20-MAR-2001	11:27:11.07
AD786_05.SASEB\$DATA;3	193	20-MAR-2001	11:27:27.47
AD786_06.SASEB\$DATA;3	2753	20-MAR-2001	11:27:52.50
AD786_11.SASEB\$DATA;3	385	20-MAR-2001	11:28:15.39
AD885_04.SASEB\$DATA;3	993	20-MAR-2001	11:27:12.03
AD885_05.SASEB\$DATA;4	3473	20-MAR-2001	14:40:28.08
AD885_06.SASEB\$DATA;3	2667	20-MAR-2001	11:27:53.57
AD885_11.SASEB\$DATA;3	125	20-MAR-2001	11:28:16.75
AD984_11.SASEB\$DATA;2	379	13-JAN-2000	07:53:52.21
BASE800.SASEB\$DATA;1	190	18-FEB-2000	11:15:21.36
CAMERON.SASEB\$DATA;1	129	15-MAY-2002	09:22:35.20
COMMHIST.SASEB\$DATA;7	256969	28-JUN-2004	15:14:37.63
COMMTRAL.SASEB\$DATA;1	401	19-MAR-2003	16:01:42.92
COMVAL00.SASEB\$DATA;3	4931	13-MAR-2003	09:02:40.60
COMVAL01.SASEB\$DATA;8	2263	28-MAY-2008	09:43:02.27
COMVAL02.SASEB\$DATA;3	4235	13-MAR-2003	09:01:59.67
COMVAL05.SASEB\$DATA;3	3121	31-MAY-2007	15:20:00.08
CVAL0405.SASEB\$DATA;3	5249	6-JUL-2007	16:10:47.14
CVAL0508.SASEB\$DATA;1	34	1-OCT-2008	17:10:54.81
CVALALL.SASEB\$DATA;7	2641	25-JAN-2008	09:49:12.21

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

CVALTEST.SASEB\$DATA;3	5249	30-NOV-2007	10:37:29.69
DEALCHK.SASEB\$DATA;3	639	8-MAY-2003	14:27:51.60
DEALFREQ.SASEB\$DATA;4	139	13-SEP-2001	14:17:29.99
DRUMQUAL.SASEB\$DATA;4	191	6-APR-2004	08:40:23.09
DVAL0405.SASEB\$DATA;3	541	10-JUL-2007	11:23:30.48
DVAL0508.SASEB\$DATA;1	17	1-OCT-2008	17:25:09.04
DVALALL.SASEB\$DATA;4	449	9-JAN-2008	12:44:18.74
DVALALS.SASEB\$DATA;3	33	21-OCT-2008	13:35:38.03
DVALELIG.SASEB\$DATA;3	833	31-JAN-2008	12:47:58.48
ELEC2003.SASEB\$DATA;28	385	10-AUG-2009	16:39:17.05
ELEC2004.SASEB\$DATA;31	145	10-AUG-2009	16:39:17.10
ELEC2005.SASEB\$DATA;16	49	10-AUG-2009	16:39:17.15
ELEC2006.SASEB\$DATA;12	49	10-AUG-2009	16:39:17.19
ELEC2007.SASEB\$DATA;7	49	10-AUG-2009	16:39:17.25
ELEC2008.SASEB\$DATA;6	49	10-AUG-2009	16:39:17.32
ELEC2009.SASEB\$DATA;3	33	10-AUG-2009	16:39:17.36
ELECDEAL.SASEB\$DATA;20	73	28-JUL-2004	08:17:13.86
ERROR1.SASEB\$DATA;11	65	7-FEB-2006	14:17:01.60
ERROR2.SASEB\$DATA;11	65	7-FEB-2006	14:17:01.96
LANDINGS_FILE.SAS;1	10	17-FEB-2000	08:14:07.45
LA_AREA.SASEB\$DATA;1	59	31-OCT-2001	10:36:01.56
MAS600.SASEB\$DATA;37	72241	20-JUL-2009	12:09:52.74
MAS700.SASEB\$DATA;37	189541	20-JUL-2009	12:10:57.90
MAS800.SASEB\$DATA;37	540541	20-JUL-2009	12:14:41.16
MAS900.SASEB\$DATA;37	299461	20-JUL-2009	12:20:43.29
MENHAD99.SASEB\$DATA;5			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

MSS_2003.SASEB\$DATA;271	7393	10-DEC-2003	12:50:00.25
	401	17-AUG-2009	15:01:03.30
MSS_2003.SASEB\$DATA;270			
	401	17-AUG-2009	14:15:31.64
MSS_2004.SASEB\$DATA;271			
	7321	17-AUG-2009	15:01:03.39
MSS_2004.SASEB\$DATA;270			
	7321	17-AUG-2009	14:15:31.69
MSS_2005.SASEB\$DATA;223			
	6361	17-AUG-2009	15:01:03.44
MSS_2005.SASEB\$DATA;222			
	6361	17-AUG-2009	14:15:31.77
MSS_2006.SASEB\$DATA;170			
	8681	17-AUG-2009	15:01:03.48
MSS_2006.SASEB\$DATA;169			
	8681	17-AUG-2009	14:15:31.82
MSS_2007.SASEB\$DATA;135			
	8561	17-AUG-2009	15:01:03.55
MSS_2007.SASEB\$DATA;134			
	8561	17-AUG-2009	14:15:31.86
MSS_2008.SASEB\$DATA;67			
	7881	17-AUG-2009	15:01:03.62
MSS_2008.SASEB\$DATA;66			
	7881	17-AUG-2009	14:15:31.95
MSS_2009.SASEB\$DATA;30			
	5201	17-AUG-2009	15:01:03.68
MSS_2009.SASEB\$DATA;29			
	5201	17-AUG-2009	14:15:32.00
NOTICE.SASEB\$DATA;1			
	2461	1-DEC-1998	14:55:35.76
OVER70.SASEB\$DATA;3			
	33	7-JUN-2004	15:03:58.93
SC600_01.SASEB\$DATA;4			
	3137	7-DEC-2000	14:59:50.09
SC600_02.SASEB\$DATA;2			
	2625	23-MAR-2000	11:06:39.61
SC600_03.SASEB\$DATA;2			
	193	2-MAR-2000	16:26:11.80
SC600_12.SASEB\$DATA;2			
	1793	11-FEB-2000	09:42:57.22
SC687_02.SASEB\$DATA;4			
	2305	8-JUN-1999	13:44:13.35
SC687_03.SASEB\$DATA;4			
	3137	8-JUN-1999	13:44:06.02
SC687_04.SASEB\$DATA;2			
	3585	8-JUN-1999	13:43:54.29
SC687_05.SASEB\$DATA;2			
	2369	1-JUN-1999	16:18:41.65
SC687_06.SASEB\$DATA;2			
	961	7-JUL-1999	15:42:04.75

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

SC687_07.SASEB\$DATA;2	2305	5-AUG-1999	08:44:59.47
SC687_08.SASEB\$DATA;2	2817	4-NOV-1999	14:53:08.38
SC687_09.SASEB\$DATA;2	3521	4-NOV-1999	14:52:55.97
SC687_10.SASEB\$DATA;2	1665	4-NOV-1999	14:52:42.24
SC687_11.SASEB\$DATA;2	2305	10-MAY-2000	07:43:42.17
SC700_01.SASEB\$DATA;4	11073	1-FEB-2001	15:44:05.36
SC700_02.SASEB\$DATA;3	5121	1-FEB-2001	15:44:22.76
SC700_03.SASEB\$DATA;3	65	1-FEB-2001	15:44:52.90
SC700_12.SASEB\$DATA;3	12161	1-FEB-2001	15:43:41.29
SC786_02.SASEB\$DATA;5	3521	1-FEB-2001	15:40:33.14
SC786_03.SASEB\$DATA;9	4097	1-FEB-2001	15:40:56.94
SC786_04.SASEB\$DATA;3	6337	1-FEB-2001	15:41:12.45
SC786_05.SASEB\$DATA;3	7873	1-FEB-2001	15:41:27.32
SC786_06.SASEB\$DATA;3	14081	1-FEB-2001	15:41:39.02
SC786_07.SASEB\$DATA;5	27457	1-FEB-2001	15:41:55.57
SC786_08.SASEB\$DATA;7	18561	1-FEB-2001	15:42:17.08
SC786_09.SASEB\$DATA;5	16385	1-FEB-2001	15:42:35.48
SC786_10.SASEB\$DATA;3	12353	1-FEB-2001	15:42:59.72
SC786_11.SASEB\$DATA;3	8129	1-FEB-2001	15:43:11.97
SC800_01.SASEB\$DATA;4	11595	1-FEB-2001	15:44:08.03
SC800_02.SASEB\$DATA;4	9921	15-FEB-2001	08:06:36.95
SC800_03.SASEB\$DATA;3	63	1-FEB-2001	15:44:53.07
SC800_12.SASEB\$DATA;3	8495	1-FEB-2001	15:43:44.50
SC885_02.SASEB\$DATA;6	4713	1-FEB-2001	15:40:34.16
SC885_03.SASEB\$DATA;6	9735	1-FEB-2001	15:40:58.01
SC885_04.SASEB\$DATA;8			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

SC885_05.SASEB\$DATA;6	11719	1-FEB-2001	15:41:14.14
SC885_06.SASEB\$DATA;5	14137	1-FEB-2001	15:41:29.43
SC885_07.SASEB\$DATA;8	12835	1-FEB-2001	15:41:42.26
SC885_08.SASEB\$DATA;5	19593	1-FEB-2001	15:42:02.40
SC885_09.SASEB\$DATA;5	19283	1-FEB-2001	15:42:21.96
SC885_10.SASEB\$DATA;4	14509	1-FEB-2001	15:42:39.27
SC885_11.SASEB\$DATA;3	11161	15-FEB-2001	08:18:19.77
SC900_01.SASEB\$DATA;6	7317	1-FEB-2001	15:43:13.91
SC900_02.SASEB\$DATA;5	17893	8-DEC-2000	10:28:47.87
SC900_03.SASEB\$DATA;2	8695	7-DEC-2000	15:00:19.21
SC900_12.SASEB\$DATA;3	505	2-MAR-2000	16:26:55.88
SC984_02.SASEB\$DATA;4	12979	16-MAY-2000	08:16:44.88
SC984_03.SASEB\$DATA;7	8884	8-JUN-1999	13:38:50.28
SC984_04.SASEB\$DATA;6	9892	20-JAN-2000	13:27:38.96
SC984_05.SASEB\$DATA;3	9766	20-JAN-2000	12:58:01.92
SC984_06.SASEB\$DATA;4	9766	20-JAN-2000	12:58:19.84
SC984_07.SASEB\$DATA;3	11845	20-JAN-2000	12:58:31.55
SC984_08.SASEB\$DATA;6	15436	17-DEC-1999	13:08:51.74
SC984_09.SASEB\$DATA;6	12979	25-FEB-2000	16:15:43.51
SC984_10.SASEB\$DATA;5	14932	2-JUN-2000	14:23:13.10
SC984_11.SASEB\$DATA;4	13987	16-MAY-2000	08:16:08.27
SC984_12.SASEB\$DATA;1	7435	2-JUN-2000	14:23:32.50
SCAN687.SASEB\$DATA;3	17	16-MAY-2000	08:16:34.85
SCAN786.SASEB\$DATA;4	321	8-JUN-1999	13:44:27.83
SCAN885.SASEB\$DATA;5	1409	26-JUN-2001	13:36:20.73
	993	26-JUN-2001	13:36:21.54

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

SCAN984.SASEB\$DATA;3	1387	8-JUN-1999	13:41:45.42
SCREEN.SASEB\$CATALOG;1	49	21-MAR-2006	11:24:38.46
SHDEAL00.SASEB\$DATA;1	43	26-MAR-2003	08:38:55.12
SHDEAL01.SASEB\$DATA;2	43	26-MAR-2003	08:32:45.07
SHDEAL02.SASEB\$DATA;3	43	26-MAR-2003	08:28:32.19
SHRALT01.SASEB\$DATA;1	1223	3-SEP-2003	11:37:15.26
SHRLAN01.SASEB\$DATA;4	1223	1-JUL-2003	10:11:49.05
SHRLAN02.SASEB\$DATA;2	989	1-JUL-2003	10:17:55.53
SHRVAL01.SASEB\$DATA;1	29	1-JUL-2003	08:53:23.39
TEMP.SASEB\$DATA;1	17	16-MAR-2006	13:53:27.75
TEMP080.SASEB\$DATA;1	17	6-DEC-2006	15:51:11.99
TEMP600.SASEB\$DATA;1	193	28-JAN-2008	14:27:42.66
TEMP695.SASEB\$DATA;1	17	14-MAR-2007	08:27:29.27
TEMP700.SASEB\$DATA;1	129	9-MAY-2008	09:54:27.75
TEMP794.SASEB\$DATA;1	17	17-APR-2006	14:16:48.97
TEMP800.SASEB\$DATA;1	505	10-JAN-2008	09:41:32.66
TEMP893.SASEB\$DATA;1	17	12-APR-2006	14:02:23.56
TEMP900.SASEB\$DATA;1	694	10-JAN-2008	09:34:36.34
TEMP909.SASEB\$DATA;1	17	12-APR-2006	13:50:34.58
TEMP992.SASEB\$DATA;1	17	14-MAR-2007	08:30:34.08
TEMPE.SASEB\$DATA;1	17	21-AUG-2007	15:45:40.17
TEMPLOG.SASEB\$DATA;8373	26	25-AUG-2009	09:34:21.67
TEMPLOG.SASEB\$DATA;8372	26	25-AUG-2009	09:23:58.15
TEMPSUB.SASEB\$DATA;1	17	6-DEC-2006	14:21:26.33
TEST2786.SASEB\$DATA;1	190	19-MAY-1999	15:31:29.01
TEST2885.SASEB\$DATA;1	190	19-MAY-1999	15:31:45.52
TEST786.SASEB\$DATA;1			

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

TEST885.SASEB\$DATA;1	190	18-MAY-1999	16:33:34.02
TEST_LOG.SAS;1	190	18-MAY-1999	16:33:49.95
TEST_TTLOG.SAS;1	1	24-FEB-1999	13:38:29.27
TICKET_CAPTURE2.SAS;1	1	24-FEB-1999	14:30:53.50
TMP600.SASEB\$DATA;1	15	16-FEB-2000	15:59:23.18
TMP700.SASEB\$DATA;1	1105	29-FEB-2000	08:35:49.65
TMP800.SASEB\$DATA;1	4801	29-FEB-2000	08:39:16.14
TMP900.SASEB\$DATA;10	10451	29-FEB-2000	08:41:42.46
TMPLAN.SASEB\$DATA;1	5101	29-FEB-2000	08:30:17.46
TMPLAN00.SASEB\$DATA;319	6781	11-JAN-2001	13:07:01.55
TMPLAN01.SASEB\$DATA;321	284545	31-JUL-2009	10:29:48.54
TMPLAN02.SASEB\$DATA;290	271745	31-JUL-2009	10:29:48.46
TMPLAN03.SASEB\$DATA;248	255297	31-JUL-2009	10:29:48.39
TMPLAN04.SASEB\$DATA;202	274113	31-JUL-2009	10:29:48.31
TMPLAN05.SASEB\$DATA;170	273217	31-JUL-2009	10:29:48.23
TMPLAN06.SASEB\$DATA;116	204801	31-JUL-2009	10:29:48.15
TMPLAN07.SASEB\$DATA;77	202561	31-JUL-2009	10:29:48.70
TMPLAN08.SASEB\$DATA;52	229441	31-JUL-2009	10:29:48.79
TMPLAN09.SASEB\$DATA;16	191489	31-JUL-2009	10:29:49.16
TMPLAN99.SASEB\$DATA;377	51713	10-AUG-2009	09:28:27.92
TTDEAL98.SASEB\$DATA;9	275777	31-JUL-2009	10:29:48.62
TTDEALER.SASEB\$DATA;4	9089	29-DEC-2005	08:33:04.45
TTMASCAT.SASEB\$DATA;10	1185	16-JUL-2002	10:13:41.45
TTMASLOG.SASEB\$DATA;9	13960	29-DEC-2003	09:31:23.50
TTMSS01.SASEB\$DATA;2	2476	9-MAY-2003	13:49:53.86
TTMSS02.SASEB\$DATA;2	7379	4-APR-2003	13:35:06.57
	6263	4-APR-2003	13:37:43.47

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

TTMSS03.SASEB\$DATA;2	4393	4-APR-2003	13:37:58.36
TTMSS04.SASEB\$DATA;2	245	4-APR-2003	13:38:45.63
TTMSS05.SASEB\$DATA;3	3783	4-APR-2003	13:38:59.71
TTMSS06.SASEB\$DATA;2	550	4-APR-2003	13:39:10.19
TTMSS07.SASEB\$DATA;2	4637	4-APR-2003	13:39:21.15
TTMSS08.SASEB\$DATA;2	4515	4-APR-2003	13:39:33.15
TTMSS09.SASEB\$DATA;1	5369	4-APR-2003	14:08:13.26
TTMSS10.SASEB\$DATA;1	36723	8-SEP-2003	14:02:16.70
TTMSS11.SASEB\$DATA;1	39773	7-MAY-2004	11:36:02.67
TTMSS12.SASEB\$DATA;1	41664	29-NOV-2004	08:10:35.30
TTMSS13.SASEB\$DATA;1	44043	24-MAY-2005	11:37:49.31
TTMSS14.SASEB\$DATA;1	44836	3-NOV-2005	14:31:50.28
TTMSS15.SASEB\$DATA;2	47642	17-JUL-2006	10:13:08.64
TTMSS16.SASEB\$DATA;1	48374	17-NOV-2006	09:05:58.87
TTMSS17.SASEB\$DATA;1	51241	26-JUL-2007	08:28:02.46
TTMSS18.SASEB\$DATA;1	52095	4-JAN-2008	06:52:15.40
TTMSS19.SASEB\$DATA;2	53681	30-MAY-2008	14:32:25.48
TTMSS20.SASEB\$DATA;1	55511	5-MAR-2009	07:20:00.10
TTMSS21.SASEB\$DATA;1	58195	10-AUG-2009	16:13:22.17
TTMSSCAT.SASEB\$DATA;30	58317	10-AUG-2009	16:14:24.17
TTMSSCAT.SASEB\$DATA;29	58195	5-MAR-2009	07:26:36.79
TTMSSMAS.SASEB\$DATA;1543	8485	25-AUG-2009	23:11:15.92
TTMSSMAS.SASEB\$DATA;1542	8485	24-AUG-2009	23:10:14.87
TT_VERIFY.SAS;1	1	12-APR-2000	09:48:54.14
V85P800.SASEB\$DATA;3	190	18-FEB-2000	14:50:19.47
VALELIG2.SASEB\$DATA;3	8061	22-FEB-2008	10:19:24.19

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

VVAL0405.SASEB\$DATA;6	3367	10-JUL-2007	11:25:27.01
VVALALL.SASEB\$DATA;7	1105	25-JAN-2008	13:20:11.35
VVALCHK.SASEB\$DATA;2	8061	20-MAY-2008	12:33:00.00
VVALELIG.SASEB\$DATA;3	4811	31-JAN-2008	14:38:11.52
VVALMEN.SASEB\$DATA;4	508	30-JUN-2008	11:51:22.40

Total of 210 files, 5342763 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.CLIMATE]

AIR_TEMP.SASEB\$DATA;1

353 16-OCT-2001 13:53:41.39

PRECP.SASEB\$DATA;2 241 18-APR-2002 13:00:25.02

Total of 2 files, 594 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.RIVER_DISCHARGE]

RIVERDAY.SASEB\$DATA;2

1713 26-AUG-2003 16:02:47.26

RIVERJAN.SASEB\$DATA;1

1377 16-OCT-2001 13:52:47.53

Total of 2 files, 3090 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST320_326]

ADAP320C.SASEB\$DATA;1

9601 21-FEB-2001 08:20:04.80

ADAPS326.SASEB\$DATA;1

7701 21-FEB-2001 08:22:55.24

S326NEW.SASEB\$DATA;1

9329 21-FEB-2001 10:16:16.28

S326OLD.SASEB\$DATA;1

40961 21-FEB-2001 14:44:42.40

Total of 4 files, 67592 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST732]

ADAPS732.SASEB\$DATA;2

6769 13-JAN-2004 13:57:41.25

Total of 1 file, 6769 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST731]

ADAP731C.SASEB\$DATA;4	13080	19-JAN-2006	08:32:08.98
ADAPS731.SASEB\$DATA;1	1153	23-FEB-2001	15:50:04.33
S719OLD.SASEB\$DATA;1	31233	17-JUL-2001	15:25:06.38
S731NEW.SASEB\$DATA;1	8897	23-FEB-2001	15:52:15.63
ST719.SASEB\$DATA;3	44850	26-JAN-1996	10:43:46.81

Total of 5 files, 99213 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST730]

ADAPS730.SASEB\$DATA;2	9659	13-JAN-2004	13:40:30.14
S730NEW.SASEB\$DATA;1	9537	23-FEB-2001	15:19:59.35

Total of 2 files, 19196 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST623]

ADAPS623.SASEB\$DATA;2	6601	13-JAN-2004	13:30:29.05
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Total of 1 file, 6601 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST622]

ADAP622C.SASEB\$DATA;4	12384	13-JAN-2004	13:19:41.55
ADAPS622.SASEB\$DATA;1	421	20-FEB-2001	10:45:21.06
S619OLD.SASEB\$DATA;1	7041	16-JUL-2001	13:15:23.48
S622NEW.SASEB\$DATA;3	7361	20-FEB-2001	10:47:35.90
ST619.SASEB\$DATA;2	8386	26-JAN-1996	10:43:04.96

Total of 5 files, 35593 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST518]

ADAPS518.SASEB\$DATA;3

10231 13-JAN-2004 13:08:00.07

S518PE.SASEB\$DATA;1

66907 20-FEB-2001 10:29:42.46

ST518PE.SASEB\$DATA;2

80081 22-JUN-1995 09:45:24.46

Total of 3 files, 157219 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST417]

ADAPS417.SASEB\$DATA;2

8009 13-JAN-2004 12:45:40.27

Total of 1 file, 8009 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST338]

ADAP338C.SASEB\$DATA;1

11017 1-SEP-2004 10:16:12.49

ADAPS338.SASEB\$DATA;2

1057 1-SEP-2004 10:01:41.53

S338NEW.SASEB\$DATA;1

577 21-FEB-2001 16:08:27.59

Total of 3 files, 12651 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST319]

S319PUN.SASEB\$DATA;2

4688 15-FEB-1996 10:48:56.67

Total of 1 file, 4688 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST318]

S318PUN.SASEB\$DATA;2

2710 15-FEB-1996 11:00:32.86

Total of 1 file, 2710 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST317]

ADAP317A.SASEB\$DATA;3	10193	28-DEC-2004	11:01:21.75
ADAPS317.SASEB\$DATA;6	3173	28-DEC-2004	10:55:58.24
S317PE.SASEB\$DATA;1	46873	15-FEB-2001	13:30:42.43

Total of 3 files, 60239 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST315]

ADAP315C.SASEB\$DATA;3	8581	13-JAN-2004	09:49:09.29
ADAPS315.SASEB\$DATA;1	2785	21-FEB-2001	08:06:04.04
S315PE.SASEB\$DATA;1	44391	21-FEB-2001	08:11:53.55

Total of 3 files, 55757 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST112]

ADAP112C.SASEB\$DATA;1	12145	1-OCT-2004	13:44:22.65
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Total of 1 file, 12145 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST111]

ADAPS111.SASEB\$DATA;1	13443	28-APR-2003	09:09:48.65
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Total of 1 file, 13443 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST106]

ADAPS106.SASEB\$DATA;3	4941	13-JAN-2004	09:32:53.75
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Total of 1 file, 4941 blocks.

LDWF VMS SAS FILES (THIS IS LIST IS NOT INCLUSIVE)

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST105]

ADAPS105.SASEB\$DATA;5	9857	13-JAN-2004	09:21:27.33
S105NEW.SASEB\$DATA;1	8769	14-FEB-2001	14:34:52.46
ST105OLD.SASEB\$DATA;1	8273	14-FEB-2001	14:23:08.76

Total of 3 files, 26899 blocks.

Directory \$3\$DRA0:[USERS.HYDRO_H.SAS_DATA.ST321_325]

ADAP321C.SASEB\$DATA;1	9967	13-OCT-2004	09:36:46.06
ADAPS325.SASEB\$DATA;1	969	20-FEB-2001	09:14:11.69
S321OLD.SASEB\$DATA;1	6241	20-FEB-2001	09:16:45.09
S325NEW.SASEB\$DATA;1	7041	20-FEB-2001	09:20:17.77

Total of 4 files, 24218 blocks.

Attachment V: Policy #61, "Personal Information Breach Notification"

DEPARTMENT OF WILDLIFE AND FISHERIES
POLICY AND PROCEDURE MEMORANDUM # 61

EFFECTIVE DATE: April 23, 2008

SUBJECT: PERSONAL INFORMATION BREACH NOTIFICATION

AUTHORIZATION: Robert Barham
Secretary

I. POLICY

It is the policy of the Department of Wildlife and Fisheries (LDWF) to comply with state law requiring notification to certain parties in the event of security breaches involving personal information.

II. PURPOSE

This policy will establish guidelines for determining if a security breach requires affected person(s) to be notified under state law and the procedures to be used for such notification.

III. AUTHORITY

- The Louisiana “Database Security Breach Notification Law” (La R.S. 51:3071 et. seq.)
- The Louisiana Administrative Code (LAC) Title 16, Part III, Chapter 7, § 701

IV. APPLICABILITY

This policy will apply to all LDWF employees and to all independent contractors and agents engaged in work on behalf of LDWF and / or using LDWF information systems.

V. DEFINITIONS

Security Breach – means the compromise of the security, confidentiality, or integrity of computerized data that results in or there is a reasonable basis to conclude has resulted in the unauthorized acquisition of and access to personal information maintained by LDWF or its contractors on behalf of LDWF.

NOTE: IF THE PERSONAL INFORMATION IN QUESTION HAS BEEN ENCRYPTED OR REDACTED PRIOR TO THE POSSIBLE ACCESS BY AN

UNAUTHORIZED PARTY, THEN IT IS NOT A SECURITY BREACH UNDER THIS POLICY OR STATE LAW.

Personal Information – means an individual’s first name or first initial and last name in combination with any one or more of the following data elements, *when the name or the data element is not encrypted or redacted*:

- Social security number
- Driver’s license number
- Account number, credit or debit card number, in combination with any required security code, access code or password that would permit access to an individual’s financial account.

Person(s) – means any individual, corporation, partnership, sole proprietorship, joint stock company, joint venture or any other legal entity.

VI. PROCEDURES/RESPONSIBILITIES FOR NOTIFICATION

Employees are required to adhere to all LDWF information security policies and procedures in order to avoid security breaches. In the event that such a breach does occur or is reasonably believed to have occurred, employees are required to *immediately* notify the Secretary or his designee through the appropriate chain of command for the employee’s division, as required by the applicable Division Administrator / Enforcement Colonel.

Employees are not to disturb, delete or alter any available evidence of the security breach until it is secured and preserved by the LDWF I.T. Section or appropriate law enforcement agency.

After consultation with the LDWF legal section and any other personnel, the Secretary or his designee shall determine if the security breach meets the requirements for notification to affected parties under state law, considering the expressed needs of law enforcement agencies.

If the Secretary or his designee determines that notification is required and no law enforcement agency has indicated that notification would impede a criminal investigation, then the person(s) affected by the breach will be notified by the Secretary via one of the following methods:

- Written notification.
- Electronic notification consistent with the provisions regarding electronic records and signatures set forth in 15 U.S.C. 7001.
- Substitute notification as provided by La R.S. 51:3074 E (3), if the cost of providing notification would exceed \$ 250,000 or more than 500,000 persons are affected by the breach or DWF does not have sufficient contact information. Substitute notification includes notification via e-mail (if DWF

has an e-mail address for the contact person), web site posting and notification to major statewide media.

Within 10 days of sending notification of the security breach, the Secretary shall provide written notice detailing the breach (including the names of all Louisiana citizens affected) to the Consumer Protection Section of the Attorney General's Office.

VII. REQUIREMENTS FOR WRITTEN AGREEMENTS

All LDWF contracts, memorandums of understanding, cooperative endeavor and other written agreements shall include a clause requiring the party(s) contracting with DWF to bear the entire cost of notification should a breach occur as a result of, or for reasons relating to, the contract, memorandum of understanding or other agreement, when such breach is attributable, either in whole or in part, to the action, negligence or failure to act, on the part of the contractor(s).

VIII. EMPLOYEE NOTIFICATION OF POLICY

This policy is posted on the Department of Wildlife and Fisheries Intranet Web Site for employee access. Supervisors, managers and division administrators in the Department are responsible for notifying their employees of this policy and providing a copy of this policy to those employees, who do not have intranet access.

IX. EXCEPTIONS TO POLICY

The Secretary may make exceptions to this policy whenever it is deemed to be appropriate and/or in the best interest of the Department.

Attachement VI: Appendices A, and B from the Marine Fisheries Field Procedures Manual

Appendix A: Code Tables

Gear Codes

100	trawl (generic)
101	16' flat otter trawl
102	6' flat otter trawl
104	22' flat otter trawl
114	22' surface trawl
116	marsh sled
117	wing net
118	25' otter trawl
119	32' otter trawl
120	50' otter trawl
122	Renfro beam trawl (plankton net for pl's)
123	40' otter trawl
128	10' otter trawl
140	50' balloon trawl
141	6'x6' starboard wing net
142	6'x6' port wing net
144	40' balloon trawl
145	40' SEAMAP trawl
200	seine (generic)
203	100' seine
205	block-off net
207	50' seine, 1/4 in. delta mesh
237	25' seine, 1/4" bar, 2 quadrants
238	25' seine, 1/4" bar, 1 quadrant
239	50' seine, 1/4" bar, freshwater
240	10' seine, 1/8" bar
242	1-man seine
247	25' seine, 1/4 in. mesh
248	600' seine
249	purse seine
300	plankton net (generic)
305	1/2 meter plankton net (.505 mm mesh)
306	1/2 meter plankton net (no. 2 mesh)
307	1/2 meter plankton net (1 mm mesh)
308	1/4 meter plankton net (no. 20 mesh)

320 Butler Plate
321 1/2 meter plankton net (no. 20 mesh)
324 1/2 meter plankton net (no. 10 mesh)
330 1 meter plankton net (no. 2 mesh)
331 1 meter plankton net (.505 mm mesh)
343 Bongo sampler (.363 mm mesh, 60 cm. diam.)
400 dredge (generic)
401 Meter-square oyster sampler
409 Bottom Corer (BBB coring device)
410 Ekman Dredge (9"x9"x12")
411 Petersen dredge
412 8-tooth oyster dredge
413 Hydraulic clam dredge
415 Modified 18-tooth clam dredge
416 22 inch oyster dredge
417 24 inch oyster dredge
418 18 inch oyster dredge
425 Meshed oyster hand tongs
431 Smith-McIntyre dredge
439 Ekman Dredge (6"x6"x9")
440 Ponar Dredge
441 Gravity Corer
500 gill (generic)
501 150' 1" bar mono gill
502 150' 1.5" bar mono gill
503 150' 2" bar mono gill
504 150' 2.5" bar mono gill
505 150' 3" bar mono gill
508 150' 1.25" bar mono gill
509 150' 1.75" bar mono gill
519 100' 2" bar mono gill
520 100' 2.5" bar, 6' deep mono gill
521 100' 3" bar. 6' deep mono gill
522 100' 3.5" bar, 6' deep mono gill
523 100' 4" bar, 6' deep mono gill
526 600' 3" stretch 10' deep mono gill
527 100' (4x25' 2.5,3,3.5,and 4"bar) mono gill
528 25' 2.5" bar mono
529 25' 3" bar mono
530 25' 3.5" bar mono

531 25' 4" bar mono
 532 300' 4" bar mono
 533 300' 5" bar mono
 534 300' 6" bar mono
 535 300' 7" bar mono
 542 400' 3.25" stretch 10' deep mono gill
 543 400' 3.25" stretch 10' deep multi gill
 544 400' 3.75" stretch 10' deep mono gill
 545 400' 3.75" stretch 10' deep multi gill
 546 400' 4" stretch 10' deep mono gill
 547 400' 4" stretch 10' deep multi gill
 550 200' 2.5" bar mono gill
 551 200' 3" bar mono gill
 552 200' 3.5" bar mono gill
 553 200' 4" bar mono gill
 554 300' 2.5" bar mono gill
 555 300' 3" bar mono gill
 556 300' 3.5" bar mono gill
 557 300' 4" bar mono gill
 600 trammel net (generic)
 606 750' dipped tram (1 5/8" in, 6" out wall)
 627 740' multi trammel net (5'deep, 2" mesh)
 700 traps (generic)
 705 Eel pot, rectangular, 3/4"x3/4"
 706 Eel pot, circular, 3/4"x3/4"
 709 pound net
 710 Frame net, 1" bar, 2' diameter
 711 Frame net, 1.25" bar, 2' diameter
 712 Frame net, .5" bar, 3' X 6" frame
 718 Barrels (cans, drums, tires)
 745 Slat trap, 1"
 746 Slat trap, 1 1/4"
 747 Slat trap, 1", with 1 1/4" escape rings
 757 Hoop net, 1" bar, 4' diam.
 758 Hoop net, 1" bar, 2 1/2' diam.
 759 Hoop net, 1 1/8" bar, 2 1/2' diam.
 760 Hoop net, 1 1/4" bar, 2 1/2' diam.
 761 Hoop net, 1" bar,(8) 1 5/8" esc rngs,2 1/2'dia
 762 Hoop net, 1" bar,(4) 1 5/8" esc rngs,2 1/2'dia
 763 Hoop net, 1" bar,(8) 1 1/4" esc rngs,2 1/2'dia

770 Wire trap, 1", no bonnet
771 Wire trap, 1 1/2", no bonnet
772 Wire trap, 1", Vertical bonnet
773 Wire trap, 1 1/2", vertical bonnet
774 Wire trap, 1", horizontal bonnet
775 Wire trap, 1 1/2", horizontal bonnet
776 Wire trap, 1", 1 1/4" escape rings
777 Wire trap, 1", 1 1/2" escape rings
778 Wire trap, 1", 1 3/4" escape rings
782 Minnow trap
797 Wing net (hoop with leads)
800 hook-and-line (generic)
812 trot line
813 limb line
814 jug line
815 stump line
816 Yo-Yo above water
817 Yo-Yo below water
818 Texas Trigger
824 Rod and reel
825 Tournament
826 Snagging
900 general (generic)
901 Electrofishing, AC, prod, nite
902 Electrofishing, AC, boom, nite
903 Electrofishing, AC, prod, day
904 Electrofishing, AC, boom, day
905 Electrofishing, DC, prod, nite
906 Electrofishing, DC, boom, nite
907 Electrofishing, DC, prod, day
908 Electrofishing, DC, boom, day
909 Electrofishing, backpack shocker
910 Electrofishing, Forage
913 Rotenone, 1-day pickup
914 Rotenone, Length by Classification
915 Rotenone, 1 acre
916 Rotenone, shoreline
917 Rotenone, cove
918 Rotenone, other
921 Dip net

- 922 Bow and Arrow
- 923 Spear Gun
- 924 Gig
- 927 Cyanide
- 999 Cast Net

Observation Codes

- 1 Only penaeid shrimp measured in trawl
- 6 Gear not operating efficiently
- 10 Gear full of ctenophores ("jelly")
- 14 Sample lost/destroyed in whole/in part
- 15 Sargassum
- 16 Sampling precluded (unfavorable conditions)
- 17 First of consecutive samples (replicates)
- 18 Second of consecutive samples (replicates)
- 19 Third of consecutive samples (replicates)
- 20 Fourth of consecutive samples (replicates)
- 21 Fifth of consecutive samples (replicates)
- 22 Sixth of consecutive samples (replicates)

Project and Special Codes

Project Number	Project Name	Special Number	Special Name
1	SHRIMP/GROUNDFISH MONITORING	.	REGULAR SAMPLES
1	SHRIMP/GROUNDFISH MONITORING	1	CAERNARVON MONITORING
1	SHRIMP/GROUNDFISH MONITORING	2	COMMERCIAL GEAR SAMPLES
1	SHRIMP/GROUNDFISH MONITORING	3	DAVIS POND MONITORING
1	SHRIMP/GROUNDFISH MONITORING	4	LAKE PONTCHARTRAIN
2	MARINE FINFISH MONITORING	.	REGULAR SAMPLES
2	MARINE FINFISH MONITORING	3	DAVIS POND MONITORING
2	MARINE FINFISH MONITORING	4	LAKE PONTCHARTRAIN

3	OYSTER MONITORING	.	REGULAR SAMPLES
3	OYSTER MONITORING	3	DAVIS POND MONITORING
4	FRESHWATER FINFISH MONITORING	.	REGULAR SAMPLES
4	FRESHWATER FINFISH MONITORING	1	ATCHAFALAYA BASIN
4	FRESHWATER FINFISH MONITORING	2	SEXUAL MATURITY STUDY
4	FRESHWATER FINFISH MONITORING	3	DAVIS POND MONITORING
5	ISOHALINE	.	REGULAR SAMPLES
5	ISOHALINE	3	DAVIS POND MONITORING
6	CONSTANT RECORDER	.	REGULAR SAMPLES
	LOOP ENVIRONMENTAL		
7	MONITORING	.	REGULAR SAMPLES
	SEAMAP ENVIRONMENTAL		
8	MONITORING	.	REGULAR SAMPLES
9	OIL SPILL RESPONSE	.	REGULAR SAMPLES
10	BRINE MONITORING PROJECT	.	REGULAR SAMPLES
11	INLAND CREEL SURVEYS	.	REGULAR SAMPLES
12	PLANKTON MONITORING	.	REGULAR SAMPLES
13	HYPOXIA MONITORING	.	REGULAR SAMPLES
	SHRIMP/GROUNDFISH		CAERNARVON MANAGEMENT
1	MONITORING	5	STUDY
	SHRIMP/GROUNDFISH		
1	MONITORING	6	CRASH SAMPLES
	NATIONAL COASTAL ASSESSMENT		
14	2000	.	REGULAR SAMPLES
15	BIOLOGICAL PARTS SAMPLING	1	FIN SAMPLING
15	BIOLOGICAL PARTS SAMPLING	2	SPORT FISH SAMPLING
15	BIOLOGICAL PARTS SAMPLING	3	LSU BLACK DRUM SAMPLING
15	BIOLOGICAL PARTS SAMPLING	4	MERCURY PROJECT SAMPLING
15	BIOLOGICAL PARTS SAMPLING	5	TROUT WATCHERS SAMPLING
15	BIOLOGICAL PARTS SAMPLING	6	YOUNG OF YEAR SAMPLING
15	BIOLOGICAL PARTS SAMPLING	7	FECUNDITY

Total Number Method

- 1 Precise weight of complete sample (milligram)
- 2 Experiential estimate (milligram)
- 3 Proportion based on weight of known number (millg)
- 4 Proportion based on partition sample (milligram)
- 5 Proportion based on known volume (milligram)
- 6 Sum of individual weights (milligram)
- 11 Precise weight of complete sample (gram)
- 12 Experiential estimate (gram)

- 13 Proportion based on weight of known number (gram)
- 14 Proportion based on partitioning sample (gram)
- 15 Proportion based on known volume (gram)
- 16 Sum of individual weights (gram)
- 21 Precise weight of complete sample (kilogram)
- 22 Experiential estimate (kilogram)
- 23 Proportion based on weight of known number (kilog)
- 24 Proportion based on partition sample (kilogram)
- 25 Proportion based on known volume (kilogram)
- 26 Sum of individual weights (kilogram)
- 31 Precise weight of complete sample (ounce)
- 32 Experiential estimate (ounce)
- 33 Proportion based on weight of known number (ounce)
- 34 Proportion based on partitioning sample (ounce)
- 35 Proportion based on known volume (ounce)
- 36 Sum of individual weights (ounce)
- 41 Precise weight of complete sample (pound)
- 42 Experiential estimate (pound)
- 43 Proportion based on weight of known number (pound)
- 44 Proportion based on partitioning sample (pound)
- 45 Proportion based on known volume (pound)
- 46 Sum of individual weights (pound)
- 50 Exact count of complete sample
- 51 Proportion based on volumetric split of sample
- 52 Count based on weight of complete sample
- 53 Species weight based on weight of complete sample
- 54 Folsom Plankton splitter

Duration Methods

- 1 Seconds
- 2 Minutes
- 3 Hours
- 4 Days
- 5 Weeks
- 6 Months

Length Methods

- 1 Total length (millimeter)
- 2 Total length (centimeter)
- 3 Total length (meter)

- 4 Total length (inch)
- 5 Total length (foot)
- 6 Total length (yard)
- 11 Standard length (millimeter)
- 12 Standard length (centimeter)
- 13 Standard length (meter)
- 14 Standard length (inch)
- 15 Standard length (foot)
- 16 Standard length (yard)
- 21 Fork length (millimeter)
- 22 Fork length (centimeter)
- 23 Fork length (meter)
- 24 Fork length (inch)
- 25 Fork length (foot)
- 26 Fork length (yard)

Physical Data Methods

- 1 Experiential estimates
- 2 RS-5 OR PORTABLE SALINOMETER (
- 3 Alcohol or mercury thermometer
- 4 REFRACTOMETER
- 5 Bimetal Thermometer in degrees
- 6 MARTEK
- 7 GUILDLINE (T in Centigrade)
- 8 SEACAT (T in Centigrade)
- 9 HYDROLAB (T in Centigrade)
- 10 Bimetal Thermometer in degrees
- 11 Alcohol or mercury thermometer
- 12 Tide Gauge or Staff
- 13 COE pub. pool stage, NOS Tidal
- 14 Handheld Anemometer
- 15 Constant Recorder (strip Chart
- 16 Constant Recorder (digital)
- 17 Constant Recorder (punch tape)
- 18 Current meter (generic)
- 19 HACH KIT
- 20 AUTOANALYSER
- 21 CHROMATOGRAPH
- 22 SPECTROPHOTOMETER
- 23 TITRATION METHODS

- 24 AUTOSAL
- 25 GRAVIMETRIC (suspended and tot
- 26 OTHER PORTABLE METER (YSI, pH
- 27 HYDROMETER
- 28 ENDECO CONSTANT RECORDER
- 29 GC/MS (gas chromatograph/mass
- 30 Infrared absorption
- 31 Folk's Seive (grain size analy
- 32 SECCHI DISC 20" (51 cm) white
- 33 SECCHI DISC 8" (20 cm) white a
- 34 SECCHI DISC 8" (20 cm) white/b
- 35 SECCHI DISC 6" (15 cm) white a
- 36 SECCHI DISC 6" (15 cm) white/b
- 37 SECCHI DISC 12" (30 cm) white
- 38 SECCHI DISC 12" (30 cm) white/
- 39 TURBIDIMETER (NEPHELOMETRIC ME
- 40 CHLORIDOMETER
- 41 SALINITY FROM TEMP.(C) & COND.
- 42 Folk's pipette method
- 43 YSI 600 Water Quality Monitor
- 99 Unknown method

Sex Codes

- 1 Indeterminate
- 2 Male
- 3 Female

Stage Codes

- 1 Immature
- 2 Resting stage
- 3 Partial development (vitellogenesis)
- 4 Ripe development (gravid, mature)
- 5 Spent
- 6 Indeterminate
- 7 DISEASED/ABNORMAL
- 8 CRAB BERRY STAGE

Species Codes

Species Code	Scientific Name	Common Name
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987	NERODIA RHOMBIFERA	DIAMONDBACK WATER SNAKE
988	SESARMA CINEREUM	SQUAREBACK MARSH CRAB
989	INSECTA	UNID. LARVAL INSECTS
990	INSECTA	UNID. INSECT PUPAE
991	INSECTA	UNID. ADULT INSECT
992	AMPHIPODA	UNID. AMPHIPODS
993	RANA SPP	UNID. RANA FROG
		UNID. CHIRONOMUS
994	CHIRONOMIDAE	LARVA/PUPAE
995	GASTROPODA	UNID. SNAIL
996	PELECYPODA	UNID. CLAM
997	POLYCHAETA	UNID. POLYCHAETE WORM
998	CRUSTACEA	UNID. CRUSTACEAN REMAINS
999	PISCES	UNID. FISH REMAINS
1101	MICROPTERUS SALMOIDES	LARGEMOUTH BASS
1102	MICROPTERUS PUNCTULATUS	SPOTTED BASS
1103	MORONE SAXATILIS	STRIPED BASS
1104	MORONE CHRYSOPS	WHITE BASS
1105	MORONE MISSISSIPPIENSIS	YELLOW BASS
1106	STRIPED BASS X WHITE BASS	HYBRID STRIPED BASS
1107	POMOXIS ANNULARIS	WHITE CRAPPIE
1108	POMOXIS NIGROMACULATUS	BLACK CRAPPIE
1109	ESOX NIGER	CHAIN PICKEREL
1110	ESOX AMERICANUS VERMICULATUS	GRASS PICKEREL
1111	STIZOSTEDION VITREUM	WALLEYE
1112	STIZOSTEDION CANADENSE	SAUGER
1115	POMOXIS SPP	CRAPPIE
1116	ESOX SPP	PICKERAL
1120	ANYTHING	ANYTHING
1201	LEPOMIS MACROCHIRUS	BLUEGILL
1202	LEPOMIS MICROLOPHUS	REDEAR SUNFISH
1203	LEPOMIS MEGALOTIS	LONGEAR SUNFISH
1204	LEPOMIS PUNCTATUS	SPOTTED SUNFISH
1205	LEPOMIS CYANELLUS	GREEN SUNFISH
1206	LEPOMIS HUMILIS	ORANGESPOTTED SUNFISH
1207	LEPOMIS GULOSUS	WARMOUTH
1208	CENTRACHUS MACROPTERUS	FLIER
1209	LEPOMIS AURITUS	REDBREAST SUNFISH
1210	LEPOMIS SP.	HYBRID SUNFISH
1211	AMBLOPLITES RUPESTRIS	ROCK BASS
1212	LEPOMIS MARGINATUS	DOLLAR SUNFISH

1213	LEPOMIS SPP	BREAM
1301	CYPRINUS CARPIO	CARP
1302	APLODINOTUS GRUNNIENS	FRESHWATER DRUM
1303	ICTIOBUS CYPRINELLUS	BIGMOUTH BUFFALO
1304	ICTIOBUS BUBALUS	SMALLMOUTH BUFFALO
1305	ICTIOBUS NIGER	BLACK BUFFALO
1306	CARPIODES CARPIO	RIVER CARPSUCKER
1307	ERIMYZON SUCETTA	LAKE CHUBSUCKER
1308	MINYTREMA MELANOPS	SPOTTED SUCKER
1309	POLYODON SPATHULA	PADDLEFISH
1310	ICTALURUS NATALIS	YELLOW BULLHEAD
1311	ICTALURUS MELAS	BLACK BULLHEAD
1312	ICTALURUS NEBULOSUS	BROWN BULLHEAD
1313	ANGUILLA ROSTRATA	AMERICAN EEL
1314	CARPIODES CYPRINUS	QUILLBACK
1315	CARPIODES VELIFER	HIGHFIN CARPSUCKER
1316	MOXOSTOMA CARINATUM	RIVER REDHORSE
1317	MOXOSTOMA POECILURUM	BLACKTAIL REDHORSE
1319	CYCLEPTUS ELONGATUS	BLUE SUCKER
1320	ERIMYZON OBLONGUS	CREEK CHUBSUCKER
1321	ERIMYZON TENUIS	SHARPFIN CHUBSUCKER
1322	HYPENTELIUM NIGRICANS	NORTHERN HOG SUCKER
1323	ACIPENSER OXYRHYNCHUS	ATLANTIC STURGEON
1324	SCAPHIRHYNCHUS ALBUM	PALLID STURGEON
1325	SCAPHIRHYNCHUS PLATORYNCHUS	SHOVELNOSE STURGEON
1326	CARASSIUS AURATUS	GOLDFISH
1327	CTENOPHARYNGODON IDELLA	GRASS CARP
1332	HYPOPHthalmichthys MOLITRIX	SILVER CARP
1333	ICTALURUS SPP (BULLHEADS)	BULLHEAD (MUDCAT)
1334	ARISTICHTHYS NOBILIS	BIGHEAD CARP
1401	ICTALURUS PUNCTATUS	CHANNEL CATFISH
1402	ICTALURUS FURCATUS	BLUE CATFISH
1403	PYLODICTIS OLIVARIS	FLATHEAD CATFISH
1404	AMIA CALVA	BOWFIN
1405	LEPISOSTEUS SPATULA	ALLIGATOR GAR
1406	LEPISOSTEUS OCVLATUS	SPOTTED GAR
1407	LEPISOSTEUS PLATOSTOMUS	SHORTNOSE GAR
1408	LEPISOSTEUS OSSEUS	LONGNOSE GAR
1409	ICTALURUS SPP (CATFISH)	CATFISH
1501	DOROSOMA CEPEDIANUM	GIZZARD SHAD
1502	DOROSOMA PETENENSE	THREADFIN SHAD

1503	NOTEMIGONUS CRYSOLEUCAS	GOLDEN SHINER
1504	MISCELLANEOUS DARTERS	MISCELLANEOUS DARTERS
1505	MISCELLANEOUS MINNOWS	MISCELLANEOUS MINNOWS
1506	NOTURUS SP	MADTOMS
1507	APHREDODERUS SAYANUS	PIRATE PERCH
1508	ELASSOMA ZONATUM	BANDED PYGMY SUNFISH
1509	LEPOMIS SYMMETRICUS	BANTAM SUNFISH
1511	ALOSA ALABAMAE	ALABAMA SHAD
1512	ALOSA CHRYSOCHLORIS	SKIPJACK HERRING
1513	HIODON ALOSOIDES	GOLDEYE
1514	HIODON TERGISUS	MOONEYE
1515	ICHTHYOMYZON GAGEI	SOUTHERN BROOK LAMPREY
1516	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY
1521	GOBIESOCIDAE	SKILLET FISH
1601	AMMOCRYPTA ASPRELLA	CRYSTAL DARTER
1602	AMMOCRYPTA BEANI	NAKED SAND DARTER
1603	AMMOCRYPTA CLARA	WESTERN SAND DARTER
1604	AMMOCRYPTA VIVAX	SCALY SAND DARTER
1605	ETHEOSTOMA ASPRIGENE	MUD DARTER
1606	ETHEOSTOMA CAERULEUM	RAINBOW DARTER
1607	ETHEOSTOMA CHLOROSOMUM	BLUNTNOSE DARTER
1608	ETHEOSTOMA COLLETTEI	CREOLE DARTER
1609	ETHEOSTOMA FUSIFORME	SWAMP DARTER
1610	ETHEOSTOMA GRACILE	SLOUGH DARTER
1611	ETHEOSTOMA HISTRIO	HARLEQUIN DARTER
1612	ETHEOSTOMA PARVIPINNE	GOLDSTRIPE DARTER
1613	ETHEOSTOMA STIGMAEUM	SPECKLED DARTER
1614	ETHEOSTOMA SWAINI	GULF DARTER
1615	ETHEOSTOMA WHIPPLEI	REDFIN DARTER
1616	ETHEOSTOMA ZONALE	BANDED DARTER
1617	PERCINA CAPRODES	LOG PERCH
1618	PERCINA COPELANDI	CHANNEL DARTER
1619	PERCINA LENTICULA	FRECKLED DARTER
1620	PERCINA MACROLEPIDA	BIG SCALED LOG PERCH
1621	PERCINA MACULATA	BLACKSIDE DARTER
1622	PERCINA NIGROFASCIATA	BLACK BANDED DARTER
1623	PERCINA OUACHITAE	DARTER
1624	PERCINA SCIERA	DUSKY DARTER
1625	PERCINA SHUMARDI	RIVER DARTER
1651	FUNDULUS CHRYSOTUS	GOLDEN TOPMINNOW
1652	FUNDULUS CONFLUENTUS	MARSH KILLIFISH

1653	FUNDULUS JENKINSI	SALTMARSH TOPMINNOW
1654	FUNDULUS NOTATUS	BLACKSTRIPE TOPMINNOW
1655	FUNDULUS NOTTI	STARHEAD TOPMINNOW
1656	FUNDULUS OLIVACEUS	BLACKSPOTTED TOPMINNOW
1657	GAMBUSIA AFFINIS	MOSQUITO FISH
1658	HETERANDRIA FORMOSA	LEAST KILLIFISH
1659	LUCANIA PARVA	RAINWATER KILLIFISH
1660	POECILIA LATIPINNA	SAILFIN MOLLY
1680	LABIDESTHES SICCULUS	BROOK SILVERSIDE
1681	MENIDIA AUDENS	MISSISSIPPI SILVERSIDE
1701	NOTROPIS LONGIROSTRIS	LONGNOSE SHINER
1702	NOTROPIS FUMEUS	RIBBON SHINER
1703	NOTROPIS CHRYSOCEPHALUS	SOUTHERN STRIPED SHINER
1704	NOTROPIS CHALYBAEUS	IRONCOLORED SHINER
1705	NOTROPIS CAMURUS	BLUNTFACE SHINER
1706	NOTROPIS BUCHANANI	GHOST SHINER
1707	NOTROPIS BOOPS	BIGEYE SHINER
1708	NOTROPIS BLENNIUS	RIVER SHINER
1709	NOTROPIS ATROCAUDALIS	BLACKSPOT SHINER
1710	NOTROPIS ATHERINOIDES	EMERALD SHINER
1711	NOTROPIS AMNIS	PALLID SHINER
1712	NOTROPIS LUTRENSIS	RED SHINER
1713	NOTROPIS MACULATUS	TAILLIGHT SHINER
1714	NOTROPIS POTTERI	CHUB SHINER
1715	NOTROPIS ROSCIPINNIS	CHERRYFIN SHINER
1716	NOTROPIS SABINAE	SABINE SHINER
1717	NOTROPIS SHUMARDI	SIVERBAND SHINER
1718	NOTROPIS SIGNIPINNIS	FLAGFIN SHINER
1719	NOTROPIS TEXANUS	WEED SHINER
1720	NOTROPIS UMBRATILIS	REDFIN SHINER
1721	NOTROPIS VENUSTUS	BLACKTAIL SHINER
1722	NOTROPIS VOLUCELLUS	MIMIC SHINER
1723	NOTROPIS WELAKA	BLUENOSE SHINER
1724	NOTROPIS WHIPPLEI	STEEL COLOR SHINER
1725	CAMPOSTOMA ANOMALUM	STONEROLLER
1726	ERICYMBA BUCCATA	SILVERJAW MINNOW
1727	HYBOGNATHUS HAYI	CYPRESS MINNOW
1728	HYBOGNATHUS NUCHALIS	SILVERY MINNOW
1729	HYBOPSIS AESTIVALIS	SPECKLED CHUB
1730	HYBOPSIS GRACILIS	FLATHEAD CHUB
1731	HYBOPSIS WINCHELLI	CLEAR CHUB

1732	HYBOPSIS STORERIANA	SILVER CHUB
1733	NOCOMIS LEPTOCEPHALUS	BLUEHEAD CHUB
1734	OPSOPOEODUS EMILIAE	PUGNOSE MINNOW
1735	PHENACOBIUS MIRABILIS	SUCKERMOUTH MINNOW
1736	PIMEPHALES NOTATUS	BLUNTNOSE MINNOW
1737	PIMEPHALES PROMELAS	FLATHEAD MINNOW
1738	PIMEPHALES VIGILAX	BULLHEAD MINNOW
1739	SEMOTILUS ATROMACULATUS	CREEK CHUB
1750	NOTURUS FUNEBRIS	BLACK MADTOM
1751	NOTURUS GYRINUS	TADPOLE MADTOM
1752	NOTURUS LEPTACANTHUS	SPECKLED MADTOM
1753	NOTURUS MIURUS	BRINDLED MADTOM
1754	NOTURUS MUNITUS	FRECKLEBELLY MADTOM
1755	NOTURUS NOCTURNUS	FRECKLED MADTOM
1756	NOTURUS PHAEUS	BROWN MADTOM
2000	NO CATCH	NO CATCH
2001	PENAEUS AZTECUS	BROWN SHRIMP
2002	PENAEUS SETIFERUS	WHITE SHRIMP
2003	CALLINECTES SAPIDUS	BLUE CRAB
2004	ANCHOA MITCHILLI	BAY ANCHOVY
2005	MICROPOGONIAS UNDULATUS	ATLANTIC CROAKER
2006	LEIOSTOMUS XANTHURUS	SPOT
2007	BREVOORTIA PATRONUS	GULF MENHADEN
2008	POLYDACTYLUS OCTONEMUS	ATLANTIC THREADFIN
2009	CYNOSCION ARENARIUS	SAND SEATROUT
2010	ARIUS FELIS	SEA CATFISH
2011	SPHOEROIDES NEPHELUS	SOUTHERN PUFFER
2012	PALAEEMONETES VULGARIS	GRASS SHRIMP
2013	BAGRE MARINUS	GAFFTOPSAIL CATFISH
2014	MEMBRAS MARTINICA	ROUGH SILVERSIDE
2015	TRINECTES MACULATUS	HOGCHOKER
2016	ACETES AMERICANUS	NET CLINGER
2017	MUGIL CEPHALUS	STRIPED MULLET
2018	LOLLIGUNCULA BREVIS	ATLANTIC BRIEF SQUID
2019	CITHARICHTHYS SPILOPTERUS	BAY WHIFF
2020	CHAETODIPTERUS FABER	ATLANTIC SPADEFISH
2021	BAIRDIELLA CHRYSOURA	SILVER PERCH
2022	PARALICHTHYS LETHOSTIGMA	SOUTHERN FLOUNDER
2023	CHLOROSCOMBRUS CHRYSURUS	ATLANTIC BUMPER
2024	SYNODUS FOETENS	INSHORE LIZARDFISH
2026	ANCHOA HEPSETUS	STRIPED ANCHOVY

2028	PRIONOTUS TRIBULUS	BIGHEAD SEAROBIN
2029	PEPRILUS TRIACANTHUS	BUTTERFISH
2030	SYMPHURUS PLAGIUSA	BLACKCHEEK TONGUEFISH
2031	RANGIA CUNEATA	RANGIA CLAM
2032	ACHIRUS LINEATUS	LINED SOLE
2033	ETROPUS CROSSOTUS	FRINGED FLOUNDER
2034	TRICHIURUS LEPTURUS	ATLANTIC CUTLASSFISH
2035	CARANX HIPPOS	CREVALLE JACK
2036	MENTICIRRHUS AMERICANUS	SOUTHERN KINGFISH
2038	CYNOSCION NEBULOSUS	SPOTTED SEATROUT
2039	MENIDIA BERYLLINA	INLAND SILVERSIDE
2040	FUNDULUS SIMILIS	LONGNOSE KILLIFISH
2042	ODONTASPIS TAURUS	SAND TIGER
2043	PRISTIS PECTINATA	SMALLTOOTH SAWFISH
2045	ELOPS SAURUS	LADYFISH
2046	OPISTHONEMA OGLINUM	ATLANTIC THREAD HERRING
2050	LOBOTES SURINAMENSIS	TRIPLETAIL
2051	LUTJANUS ANALIS	MUTTON SNAPPER
2052	LUTJANUS GRISEUS	GRAY SNAPPER
2053	POMATOMUS SALTATRIX	BLUEFISH
2054	CARANX CRYOSOS	BLUE RUNNER
2055	TRACHINOTUS CAROLINUS	FLORIDA POMPARO
2056	DIAPTERUS AURATUS	IRISH POMPARO
2057	EUCINOSTOMUS SPP	MOJARRA SPP
2058	ORTHOPISTIS CHRYSOPTERA	PIGFISH
2059	POGONIAS CROMIS	BLACK DRUM
2060	SCIAENOPS OCELLATUS	RED DRUM
2061	ARCHOSARGUS PROBATOCEPHALUS	SHEEPSHEAD
2062	LAGODON RHOMBOIDES	PINFISH
2063	SCOMBEROMORUS CAVALLA	KING MACKEREL
2064	SCOMBEROMORUS MACULATUS	SPANISH MACKEREL
2065	PRIONOTUS LONGISPANOSUS	BIGEYE SEAROBIN
2066	SPHYRAENA BARRACUDA	GREAT BARRACUDA
2067	SPHYRAENA GUACHANCHO	GUAGUANCHO
2068	ANCYLOPSETTA QUADROCELLATA	OCELLATED FLOUNDER
2069	PARALICHTHYS ALBIGUTTA	GULF FLOUNDER
2070	PENAEUS DUORARUM	PINK SHRIMP
2071	XIPHOPENAEUS KROYERI	SEABOB
2072	MENIPPE MERCENARIA	FLORIDA STONE CRAB
2073	DASYATIS SABINA	ATLANTIC STINGRAY
2074	HARENGULA JAGUANA	SCALED SARDINE

2075	MYROPHIS PUNCTATUS	SPECKLED WORM EEL
2076	OPHICHTHUS GOMESI	SHRIMP EEL
2077	STRONGYLURA MARINA	ATLANTIC NEEDLEFISH
2078	HYPORHAMPHUS UNIFASCIATUS	HALFBEAK
2079	CYPRINODON VARIEGATUS	SHEEPSHEAD MINNOW
2080	FUNDULUS GRANDIS	GULF KILLIFISH
2082	UROPHYCIS FLORIDANA	SOUTHERN HAKE
2083	HIPPOCAMPUS REIDI	OFFSHORE SEAHORSE
2084	SYNGNATHUS SCOVELLI	GULF PIPEFISH
2085	CENTROPRISTIS PHILADELPHICA	ROCK SEA BASS
2086	LUTJANUS SYNAGRIS	LANE SNAPPER
2088	ALECTIS CILIARIS	AFRICAN POMPARO
2089	OLIGOPLITES SAURUS	LEATHERJACKET
2090	SELENE VOMER	LOOKDOWN
2091	SELENE SETAPINNIS	ATLANTIC MOONFISH
2092	LARIMUS FASCIATUS	BANDED DRUM
2093	STELLIFER LANCEOLATUS	STAR DRUM
2094	DORMITATOR MACULATUS	FAT SLEEPER
2095	GOBIOIDES BROUSSONETI	VIOLET GOBY
2096	GOBIONELLUS BOLEOSOMA	DARTER GOBY
2097	GOBIONELLUS HASTATUS	SHARPTAIL GOBY
2098	GOBIOSOMA BOSCI	NAKED GOBY
2099	MICROGOBIUS GULOSUS	CLOWN GOBY
2100	ASTROSCOPUS Y-GRAECUM	SOUTHERN STARGAZER
2101	CHASMODES SABURRAE	FLORIDA BLENNY
2102	HYPSOBLENNIUS IONTHAS	FRECKLED BLENNY
2103	OPHIDION WELSHI	CRESTED CUSK EEL
2104	PEPRILUS ALEPIDOTUS	HARVESTFISH
2105	ECHENEIS NAUCRATES	SHARKSUCKER
2106	GOBIESOX STRUMOSUS	SKILLET FISH
2107	LAGOCEPHALUS LAEVIGATUS	SMOOTH PUFFER
2108	CHILOMYCTERUS SCHOEPLI	STRIPED BURRFISH
2109	OPSANUS BETA	GULF TOADFISH
2110	PORICHTHYS PLECTRODON	ATLANTIC MIDSHIPMAN
2111	THAIS HAEMASTOMA	SOUTHERN OYSTER DRILL
2112	LIRONECA OVALIS	ISOPOD SPP
2113	TRACHYPENEUS CONSTRICTUS	ROUGHNECK SHRIMP
2114	ALPHEUS HETEROCHAEALIS	PISTOL SHRIMP
2115	SQUILLA EMPUSA	MANTIS SHRIMP
2116	PAGURUS LONGICARPUS	LONGWRIST HERMIT CRAB
2117	PORTUNUS SAYI	SARGASSUM SWIMMING CRAB

2118	PANOPEUS HERBSTII	ATLANTIC MUD CRAB
2119	UCA PUGNAX	ATLANTIC MARSH FIDDLER
2120	MACROBRACHIUM OHIONE	RIVER SHRIMP
2121	MACROBRACHIUM ACANTHURUS	DELTA SHRIMP
2126	SYNGNATHUS LOUISIANA	CHAIN PIPEFISH
2127	SICYONIA SPP	ROCK SHRIMP SPP
2128	FUNDULUS HETEROCLITUS	MUMMICHOG
2131	PALAEMONETES PUGIO	P. PUGIO
2132	PALAEMONETES PALUDOSUS	P. PALUDOSUS
2133	NEOPANOPE TEXANA	N.TEXANA
2134	CRASSOSTREA VIRGINICA	EASTERN OYSTER
2135	BRACHIDONTES RECURVUS	HOOKED MUSSEL
2136	CONGERIA LEUCOPHAETA	CONRADS FALSE MUSSEL
2137	POLINICES DUPLICATA	LOBED MOON SHELL
2138	AEGATHOA OCVLATA	ISOPOD SPP
2139	MALACLEMYS TERRAPIN	DIAMONDBACK TERRAPIN
2140	VIOSCALBA LOUISIANA	V. LOUISIANA
2141	LITTORIDINA SPHINCTOSTOMA	L. SPHINCTOSTOMA
2142	MULINIA SPP.	MULINIA SPP.
2143	POLYMESODA CAROLINIANA	CAROLINA MARSH CLAM
2144	RHITHROPANOPEUS HARRISII	R. HARRISII
2145	UROPHYCIS CIRRTATA	GULF HAKE
2148	ANTENNARIUS RADIOSUS	SINGLESPOT FROGFISH
2149	RACHYCENTRON CANADUM	COBIA
2150	EUCINOSTOMUS GULA	SILVER JENNY
2151	CYNOSCIION NOTHUS	SILVER SEATROUT
2152	ELEOTRIS PISONIS	SPINYCHEEK SLEEPER
2153	EROTELIS SMARAGDUS	EMERALD SLEEPER
2154	GOBIONELLUS SHUFELDTI	FRESHWATER GOBY
2155	MICROGOBIUS THALASSINUS	GREEN GOBY
2156	PARALICHTHYS OBLONGUS	FOURSPOT FLOUNDER
2157	SYACIUM GUNTERI	SHOAL FLOUNDER
2158	GYMNACHIRUS MELAS	NAKED SOLE
2159	CLIBANARIUS VITTATUS	THINSTRIPED HERMIT CRAB
2160	HEPATUS PUDIBUNDUS	FLECKED BOX CRAB
2161	OVALIPES FLORIDANUS	FLORIDA LADY CRAB
2162	PORTUNUS GIBBESII	IRIDESCENT SWIMMING CRAB
2163	CALLINECTES SIMILIS	LESSER BLUE CRAB
2164	HETEROCRYPTA GRANULATA	SMOOTH ELBOW CRAB
2165	PERSEPHONA PUNCTATA	PURSE CRAB
2166	PEPRILUS BURTI	GULF BUTTERFISH

2167	CALLINECTES DANAE	DANA SWIMMING CRAB
2168	CARCHARHINUS LIMBATUS	BLACKTIP SHARK
2169	SPHYRNA TIBURO	BONNETHEAD (SHARK)
2170	DASYATIS AMERICANA	SOUTHERN STINGRAY
2172	ALOSA AESTIVALIS	BLUEBACK HERRING
2173	CLUPEA HARENGUS	ATLANTIC HERRING
2174	FUNDULUS DIAPHANUS	BANDED KILLIFISH
2175	RHOMBOPLITES AURORUBENS	VERMILION SNAPPER
2177	HYPLEUROCHILUS GEMINATUS	CRESTED BLENNY
2178	OPHIDION HOLBROOKI	BANK CUSK EEL
2179	REMORA REMORA	REMORA
2180	BALISTES CAPRISCUS	GRAY TRIGGERFISH
2181	LOPHIUS AMERICANUS	GOOSEFISH
2182	ILIACANTHUS LIODACTYLUS	I. LIODACTYLUS
2183	HEPATUS EPHELITICUS	CALICO BOX CRAB
2184	LIBINIA SPP.	SPIDER CRAB SPP.
2185	OPHIOTHRIX SPP.	BRITTLE STAR SPP.
2186	ASTERIAS SPP.	STARFISH SPP.
2187	MELLITA QUINQUIESPERFORATA	SAND DOLLAR
2188	TUNICATA SPP.	TUNICATE SPP.
2189	STOMOLOPHUS MELEAGRIS	FOUR-EYE JELLY
2190	BUSYCON SPP.	WHELK SPP.
2191	DONAX SPP.	DONAX SHELLS
2192	PROCAMBARUS CLARKI	RED SWAMP CRAWFISH
2193	PROCAMBARUS BLANDINGI	WHITE RIVER CRAWFISH
2194	GOBIIDAE	GOBY SPP.
2195	CHRYSEMYS SCRIPTA ELEGANS	REDEAR TURTLE
2196	PORCELLANA SAYANA	SPOTTED PORCELAIN CRAB
2197	BLENNY SPP.	BLENNY SPP.
2199	EEL SPP.	EEL SPP.
2200	MUGIL SPP.	MUGIL SPP.
2201	FUNDULUS SPP.	FUNDULUS SPP.
2202	SQUILLA SPP.	SQUILLA SPP.
2203	SYNGNATHUS FLORIDAE	DUSKY PIPEFISH
2204	ANCHOA LYOLEPIS	DUSKY ANCHOVY
2205	MUGIL CUREMA	WHITE MULLET
2208	NARCINE BRASILIENSIS	LESSER ELECTRIC RAY
2209	MONACANTHUS HISPIDUS	PLANEHEAD FILEFISH
2210	HIPPOCAMPUS ZOSTERAE	DWARF SEAHORSE
2211	HIPPOCAMPUS SPP.	SEAHORSE SPP.
2212	GOBIOSOMA ROBUSTUM	CODE GOBY

2213	MERCENARIA MERCENARIA	CHERRYSTONE CLAM
2216	CARCHARHINUS ISODON	FINETOOTH SHARK
2217	CARANX BARTHOLOMAEI	YELLOW JACK
2218	POLINICES DUPLICATUS	SHARKS EYE (SNAIL)
2219	GYMNURA MICRURA	SMOOTH BUTTERFLY RAY
2220	FUNDULUS PULVEREUS	BAYOU KILLIFISH
2221	SYNGNATHUS SPP.	SYNGNATHUS SPP.
2222	ANCHOA SPP.	ANCHOA SPP.
2224	RHINOPTERA BONASUS	COWNOSE RAY
2226	CARANX LATUS	HORSE-EYE JACK
2227	STOMOLOPHUS SPP.	CABBAGEHEAD
2228	HEMICARANX AMBLYRHYNCHUS	BLUNTNOSE JACK
2229	EVORTHODUS LYRICUS	LYRE GOBY
2230	PETROLISTHES SPP.	CRAB SPP.
2231	TUNICATE ILL-DEFINED	SEA SQUIRT
2232	ANCYLOPSETTA DILECTA	THREE-EYE FLOUNDER
2233	FLOUNDER SPP.	FLOUNDER SPP.
2234	RHIZOPRIONODON TERRAENOVAE	ATLANTIC SHARPNOSE SHARK
2235	BATHYGOBIUS SOPORATOR	FRILLFIN GOBY
2237	CHASMODES BOSQUIANUS	STRIPED BLENNY
2238	GOBIOMORUS DORMITOR	BIGMOUTH SLEEPER
2239	SPHOEROIDES PARVUS	LEAST PUFFER
2240	OVALIPES SPP.	OVALIPES SPP.
2241	OVALIPES OCELLATUS	OVALIPES OCELLATUS
2242	PORTUNUS SPECIES	PORTUNUS SPP.
2243	PORTUNUS SPINIMANUS	PORTUNUS SPINIMANUS
2244	PORTUNUS SPINICARPUS	PORTUNUS SPINICARPUS
2245	ARENAEUS CRIBRARIUS	SPECKLED SWIMMING CRAB
2246	LEPOPHIDIUM GRAELLSI	BLACKEDGE CUSK EEL
2247	CARCHARHINUS LEUCAS	BULL SHARK
2248	PERSEPHONA	CRINITA
2249	PERSEPHONA AQUILONARIS	PERSEPHONA AQUILONARIS
2250	LIBINIA EMARGINATA	PORTLY SPIDER CRAB
2251	SARDINELLA AURITA	SPANISH SARDINE
2252	HERRING SPP.	HERRING SPP.
2253	SPHYRNA LEWINI	SCALLOPED HAMMERHEAD
2254	TELLINA TEXANA	SAYS TELLIN
2257	MICROPANOPE XANTHIFORMES	MUD CRAB SPP.
2258	PLATYSQUILLA SPP.	SHRIMP SPP.
2259	PETROLISTHES ARMATUS	GREEN PORCELAIN CRAB
2260	SAURIDA BRASILIENSIS	LARGESCALE LIZARDFISH

2261	LUTJANUS APODUS	SCHOOLMASTER
2262	STENOTOMUS CAPRINUS	LONGSPINE PORGY
2263	ANCHOA NASUTA	LONGNOSE ANCHOVY
2264	GYMNACHIRUS TEXAE	FRINGED SOLE
2265	CYCLOPSETTA FIMBRIATA	SPOTFIN FLOUNDER
2266	HALIEUTICHTHYS ACULEATUS	PANCAKE BATFISH
2267	UPENEUS PARVUS	DWARF GOATFISH
2268	HEXAPANOPEUS ANGUSTIFRONS	SMOOTH MUD CRAB
2269	LUTJANUS CAMPECHANUS	RED SNAPPER
2270	BOLLMANNIA COMMUNIS	RAGGED GOBY
2271	SYMPHURUS CIVITATUS	OFFSHORE TONGUEFISH
2272	SYNODUS POEYI	OFFSHORE LIZARDFISH
2273	CALAPPA SULCATA	YELLOW BOX CRAB
2274	TRACHURUS LATHAMI	ROUGH SCAD
2275	LEIOLAMBRUS NITIDUS	WHITE ELBOW CRAB
2276	CALAPPA FLAMMEA	FLAME BOX CRAB
2277	SCORPAENA BRASILIENSIS	BARBFISH
2278	PRIONOTUS SCITULUS	LEOPARD SEAROBIN
2279	EURYTIUM LIMOSUM	BROADBACK MUD CRAB
2280	EUCINOSTOMUS ARGENTEUS	SPOTFIN MOJARRA
2281	EURYPANOPEUS DEPRESSUS	FLATBACK MUD CRAB
2282	LEPOPHIDIUM BREVIBARBE	SHORTBEARD CUSK EEL
2283	LIBINIA DUBIA	LONGNOSE SPIDER CRAB
2284	PANOPEUS TURGIDUS	RIDGEBACK MUD CRAB
2285	PORTUNUS VENTRALIS	CRAB
2286	BUSYCON CONTRARIUM	LIGHTNING WHELK
2287	CYCLOPSETTA CHITTENDENI	MEXICAN FLOUNDER
2289	ECHIOPHIS PUNCTIFER	STIPPLED SPOON-NOSE EEL
2290	PALAEEMONETES INTERMEDIUS	GRASS SHRIMP
2291	LOLIGO PEALEII	LONGFIN SQUID
2292	PRIONOTUS RUBIO	BLACKWING SEAROBIN
2293	CITHARICHTHYS MACROPS	SPOTTED WHIFF
2294	DIPLECTRUM BIVITTATUM	DWARF SANDPERCH
2295	PRIONOTUS STEARNSI	SHORTWING SEAROBIN
2296	NEOMERINTHE HEMINGWAYI	SPINYCHEEK SCORPIONFISH
2297	SERRANUS ATROBRANCHUS	BLACKEAR BASS
2298	PARALICHTHYS SQUAMILENTUS	BROOD FLOUNDER
2299	METOPORHAPHIS CALCARATA	FALSE ARROW CRAB
2300	SERGESTIDAE	SERGESTIDAE
2301	PLEUROBRANCHEA HEDGPETHI	SEA SLUG
2302	PELIA MUTICA	CRYPTIC TEARDROP CRAB

2303	SOLENOCERA ATLANTIDUS	DWARF HUMPBACK SHRIMP
2304	SPEOCARCINUS LOBATUS	GULF SQUAREBACK CRAB
2305	PRIONOTUS PARALATUS	MEXICAN SEAROBIN
2306	HILDEBRANDIA FLAVA	YELLOW CONGER
2307	BROTULA BARBATA	BEARDED BROTLA
2308	ETRUMEUS TERES	ROUND HERRING
2309	ALPHEUS FLORIDANUS	PISTOL SHRIMP
2310	SOLENOCERA VIOSCAI	HUMPBACK SHRIMP
2311	SQUILLA CHYDAEA	MANTIS SHRIMP
2312	PETROLISTHES GALATHINUS	BANDED PORCELAIN CRAB
2313	CARANX SPP.	CARANX SPP.
2314	EURYPANOPEUS ABBREVIATUS	LOBATE MUD CRAB
2315	SICYONIA DORSALIS	LESSER ROCK SHRIMP
2316	SCORPAENA PLUMIERI	SPOTTED SCORPIONFISH
2317	DIPLECTRUM FORMOSUM	SAND PERCH
2318	ALBUNEA PARETII	BEACH MOLE CRAB
2319	MENTICIRRHUS LITTORALIS	GULF KINGFISH
2320	HISTRIO HISTRIO	SARGASSUMFISH
2321	CARANGIDAE	JACK SP.
2322	OGCOEPHALUS SP.	BATFISH SP.
2323	SCORPAENA CALCARATA	SMOOTHHEAD SCORPIONFISH
2324	PRIACANTHUS ARENATUS	BIGEYE
2325	PRISTIPOMOIDES AQUILONARIS	WENCHMAN
2326	ANCHOVIELLA PERFASCIATA	FLAT ANCHOVY
2327	SCOMBER JAPONICUS	CHUB MACKEREL
2328	ALBUNEA GIBBESII	SURF MOLE CRAB
2329	PRIONOTUS OPHRYAS	BAND TAIL SEAROBIN
2330	CAULOLATILUS INTERMEDIUS	ANCHOR TILEFISH
2331	TRACHYPENEUS SIMILIS	ROUGHNECK SHRIMP
2332	FISTULARIA TABACARIA	BLUE SPOTTED CORNETFISH
2333	GUNTERICHTHYS LONGIPENIS	GOLD BROTLA
2334	CALLIANASSA MAJOR	MUD SHRIMP
2335	TRACHYPENEUS SPP	ROUGHNECK SHRIMP SPP
2336	DECAPTERUS PUNCTATUS	ROUND SCAD
2337	PORCELLANA SIGSBEIANA	STRIPED PORCELAIN CRAB
2338	SICYONIA BREVIROSTRIS	BROWN ROCK SHRIMP
2339	HYSOBLIENNIUS HENTZI	FEATHER BLENNY
2340	UPOGEBIA AFFINIS	COASTAL MUD SHRIMP
2341	KATHETOSTOMA ALBIGUTTA	LANCER STARGAZER
2342	SELAR CRUMENOPHTHALMUS	BIGEYE SCAD
2343	OGCOEPHALUS RADIATUS	POLKA DOT BATFISH

2344	ANTENNARIUS SCABER	SPLITLURE FROGFISH
2345	SPHYRAENA BOREALIS	NORTHERN SENNET
2346	LEANDER TENUICORNIS	SARGASSUM SHRIMP
2347	EPINEPHELUS NIGRITUS	WARSAW GROUPER
2349	ADINIA XENICA	DIAMOND KILLIFISH
2353	SARDA SARDA	ATLANTIC BONITO
2354	SERIOLA DUMERILI	GREATER AMBERJACK
2355	EPINEPHELUS MORIO	RED GROUPER
2357	LEPISOSTEUS SPP	GAR SPP
2358	STEINDACHNERIA ARGENTEA	LUMINOUS HAKE
2359	CONODON NOBILIS	BARRED GRUNT
2360	EXHIPPOLYSMATA OPLOPHOROIDES	REDLEG HUMPBAC SHRIMP
2362	HIPPOLYSMATA WURDEMANNI	SHRIMP SPP
2363	SERIOLA RIVOLIANA	ALMACO JACK
2364	MYCTEROPERCA BONACI	BLACK GROUPER
2365	MEGALOPS ATLANTICUS	TARPON
2366	SHARK SPP.	SHARK SPP.
2367	THUNNUS ALBACARES	YELLOWFIN TUNA
2368	ACANTHOCYBIUM SOLANDERI	WAHOO
2369	MAKAIRA NIGRICANS	BLUE MARLIN
2370	TETRAPTURUS ALBIDUS	WHITE MARLIN
2371	TRACHINOTUS FALCATUS	PERMIT
2372	RAJA TEXANA	ROUNDEL SKATE
2373	CORYPHAENA HIPPURUS	DOLPHIN
2374	EPINEPHELUS ADSCENSIONIS	ROCK HIND
2375	MYCTEROPERCA PHENAX	SCAMP
2376	OGCOEPHALUS DECLIVIROSTRIS	BATFISH
2377	PANOPEUS SIMPSONI	OYSTERSHELL MUD CRAB
2378	PANOPEUS OBESUS	SALTMARSH MUD CRAB
2379	LOPHIODES RETICULATUS	RETICULATE GOOSEFISH
2380	MYSIDACEA	MYSID SHRIMP
2382	CALOCARIS HIRSUTIMANA	CALOCARIS LOBSTER
2383	SQUALIFORMES	SQUALIFORM SHARK
2384	OCTOPODA	OCTOPUS SPP.
2385	OPHICHTHUS REX	BANDED EEL
2386	COLEOIDEA	UNIDENTIFIED SQUID
2387	CLUPEIDAE	CLUPEID SP.
2388	HIPPOCAMPUS ERECTUS	LINED SEAHORSE
2389	HEXAPANOPEUS PAULENSIS	KNOBBED MUD CRAB
2390	LYSMATA WURDEMANNI	PEPPERMINT SHRIMP
2391	DASYATIS CENTROURA	ROUGHTAIL STINGRAY

2392	PALAEEMONETES SPP.	GRASS SHRIMP SPP.
2393	CARCHARHINUS BREVIPINNA	SPINNER SHARK
2394	ABUDEFDUF SAXATILIS	SERGEANT MAJOR
2395	ALPHEUS NORMANNI	GREEN SNAPPING SHRIMP
2396	NEGAPRION BREVIROSTRIS	LEMON SHARK
2397	MULINIA LATERALIS	DWARF SURF CLAM
2398	SERRANICULUS PUMILIO	PYGMY SEA BASS
2399	BELLATOR MILITARIS	HORNED SEAROBIN
2400	AGONOSTOMUS MONTICOLA	MOUNTAIN MULLET
2402	ANASIMUS LATUS	STILT SPIDER CRAB
2403	BREGMACEROS ATLANTICUS	ANTENNA CODLET
2404	PRISTIGENYS ALTA	SHORT BIGEYE
2405	ALPHEUS FORMOSUS	STRIPED SNAPPING SHRIMP
2406	TELLINA LINEATA	ROSE PETAL TELLIN (CLAM)
2407	STENOPUS SCUTELLATUS	GOLDEN CORAL SHRIMP
2408	LOLIGO PLEII	ARROW SQUID
	GYMNOTHORAX	
2409	NIGROMARGINATUS	BLACKEDGE MORAY
2410	PLEOTICUS ROBUSTUS	ROYAL RED SHRIMP
2411	OPHIDION GRAYI	BLOTCHED CUSK EEL
2412	EPINEPHELUS FLAVOLIMBATUS	YELLOWEDGE GROUPER
2413	ENGYOPHRYS SENTA	SPINY FLOUNDER
2414	EQUETUS PUNCTATUS	SPOTTED DRUM
2415	OCTOPUS VULGARIS	COMMON OCTOPUS
2416	CARETTA CARETTA	LOGGERHEAD SEATURTLE
2417	HOPLUNNIS MACRURUS	FRECKLED PIKE-CONGER
2418	EMERITA BENEDICTI	BENEDICT SAND CRAB
2419	ALUTERUS SCRIPTUS	SCRAWLED FILEFISH
2420	PARACONGER CAUDILIMBATUS	MARGINTAIL CONGER
2421	EPINEPHELUS NIVEATUS	SNOWY GROUPER
2422	MYROPSIS QUINQUESPINOSA	FIVESPINE PURSE CRAB
2423	TRACHINOCEPHALUS MYOPS	SNAKEFISH
2424	MENIPPE ADINA	GULF STONE CRAB
2425	XANTHIDAE	UNIDENTIFIED MUD CRAB
2426	POLYONYX GIBBESI	EASTERN TUBE CRAB
2427	ALPHEIDAE	UNIDENTIFIED SNAPPING SHRIMP
2428	PORCELLANIDAE	UNIDENTIFIED PORCELAIN CRAB
2429	PRIONOTUS SPP.	SEAROBIN SPP.
2430	MULLUS AURATUS	RED GOATFISH
2431	LONCHOPISTHUS MICROGNATHIS	SWORDTAIL JAWFISH
2432	RANINOIDES LOEVIS	FURROWED FROG CRAB

2433	OPHICHTHUS OPHIS	SPOTTED SNAKE EEL
2434	PICKFORDIATEUTHIS	SQUID SPP.
2436	MYCTEROPERCA MICROLEPIS	GAG
2437	GYMNOTHORAX SAXICOLA	OCELLATED MORAY
2438	UNDETERMINED MORONE HYBRID	HYBRID STRIPED BASS
2439	M.MISSISSIPPIEN-M.SAXATILIS	YELLOW/STRIPED BASS
2441	PENAEID	UNDETERMINED PENAEID SHRIMP
2442	PANOPEUS OCCIDENTALIS	FURROWED MUD CRAB
2443	OVALIPES STEPHENSONI	COARSEHEAD LADYCRAB
2444	RANGIA FLEXUOSA	BROWN RANGIA CLAM
2445	SOLENLAMBRUS TYPICUS	ELBOW CRAB
2446	MAJIDAE SPP.	ARROW CRAB SPP.
2447	RYPTICUS MACULATUS	WHITESPOTTED SOAPFISH
2448	ALPHEUS ARMILLATUS	BANDED SNAPPING SHRIMP
2449	SOLENLAMBRUS TENELLUS	ELBOW CRAB
2450	SPOEROIDES SPENGLERI	BANDED PUFFER
2451	STENORHYNCHUS SETICORNIS	ARROW CRAB
2452	LUTJANUS JOCU	DOG SNAPPER
2453	ALUTERUS HEUDELITI	DOTTEREL FILEFISH
2454	LOLIGO SPP.	SQUID
2455	EQUETUS UMBROSUS	CUBBYU
2456	HYPLEUROCHILUS BERMUDENSIS	BARRED BLENNY
2457	SYNGNATHIDAE	PIPEFISH
2458	PARTHENOPIIDAE	UNIDENTIFIED ELBOW CRAB
2459	MENIPPE SPP	STONE CRAB SPP
2460	BOTHIDAE	FLATFISH SPP
2461	UMBRINA COROIDES	SAND DRUM
2462	SESARMA RETICULATUM	HEAVY MUD CRAB
2463	ELAGATIS BIPINNULATA	RAINBOW RUNNER
2464	EUTHYNNUS ALLETTERATUS	LITTLE TUNNY
9999	ANYTHING	ANYTHING

Appendix B: Marine Fisheries Field Manual

**MARINE FISHERIES DIVISION
FIELD PROCEDURES MANUAL**

Version No. 02-1

March, 2002

Louisiana Department of Wildlife and Fisheries
Office of Fisheries
Marine Fisheries Division

INTRODUCTION

Standardization of gear and sampling methodology is a prerequisite in maintaining time series survey data. The purpose of this field manual is to document and standardize sampling methodology for trawl, plankton, Butler plate, oyster dredge, square meter, seine, gill net, and trammel net samples taken by Division of Marine Fisheries personnel. Standardization will allow for meaningful comparisons of data both spatially and temporally.

The fishery independent monitoring program of the Marine Fisheries Division is largely based upon methodology utilized during the Cooperative Gulf of Mexico Estuarine Inventory and Study (GMEI) (Perret et al., 1971). The project was conducted in cooperation with the Gulf States Marine Fisheries Commission (GSMFC), the states of Alabama and Mississippi, and the National Marine Fisheries Service (NMFS) laboratories at Galveston, Texas and St. Petersburg, Florida. Standardized sampling methods and procedures used in the GMEI were developed by the Technical Coordinating Committee of the GSMFC.

Sampling protocols described in this document depict only minimal sampling requirements, which may be exceeded periodically to obtain additional biological data for management decisions. For instance, supplemental trawl samples may be taken to quantify distribution, abundance, and size of penaeid shrimp to provide data to set or close seasons. In addition, the regularly scheduled sampling program may be augmented by monitoring of specific events such as fish kills due to cold or oxygen depletion, chemical or oil spills, habitat modifications, etc.

For monitoring purposes, the Louisiana coast is divided into seven Coastal Study Areas (CSA's). These CSA's were established in 1966, when federal funds through the Commercial Fisheries Research and Development Act became available and the GMEI study was begun. Geographic boundaries

of the CSA's are as follows:

CSA I is bordered on the east by the Mississippi state line and on the south by Bayou Terre aux Boeufs, including such major water bodies as Chandeleur and Mississippi Sounds, and Lakes Borgne, Pontchartrain, and Maurepas.

CSA II is bisected by the Mississippi River with Bayou Terre aux Boeufs on the east, extending to Grand Bayou on the west. Some major water bodies found on the eastern side of the Mississippi River include Breton Sound, Black Bay, Bay Gardene, Little Lake, Bay Crabe, American Bay, California Bay, Quarantine Bay and Grand Bay. Bay Adams, Bay Jacques, Skipjack Bay, Sandy Point Bay and Bay Lanaux are found on the western side of the Mississippi River.

CSA III includes Barataria and Caminada Bays and Little Lake. Grand Bayou is the eastern boundary and Bayou Lafourche is the western boundary.

The Timbalier and Terrebonne Bay complex along with Lake Pelto is recognized as CSA IV. It is bounded on the east by Bayou Lafourche and on the west by Bayou Sale.

CSA V is defined by Bayou Sale on the east and Atchafalaya River/Point au Fer Island on the west. Major water bodies in this area are Caillou Bay, Caillou Lake, Lake Mechant, Lake Decade, and Four League Bay.

Boundaries of CSA VI extend from Atchafalaya River on the east to Freshwater Bayou on the west. Large water bodies in this area include Vermilion Bay, West Cote Blanche Bay, East Cote Blanche Bay, and Atchafalaya Bay.

CSA VII encompasses the region from Freshwater Bayou, located in Vermilion Parish, westward to the Louisiana/Texas state line. Estuaries located within CSA VII include the Rockefeller Wildlife Refuge complex, the Mermentau River Basin, Calcasieu Lake, Lake Charles, Prien Lake, and Sabine Lake.

GEAR TYPES/SAMPLE OBJECTIVES

Detailed specifications of major gear types (Appendix Table 1) are on file with the Marine Fisheries Division and are used when requisitioning new gear. Therefore, sampling crews in each CSA utilize identical sampling gear.

Plankton Net

A one-half meter plankton net is used to sample postlarval shrimp in tidal passes to ascertain seasonal occurrence and peaks of postlarval shrimp recruitment.

Trawl-16 foot

A 16 foot (ft.) flat otter trawl is used to sample penaeid shrimp, blue crabs, finfish (bottomfish), and other marine organisms in the larger inshore bays and in Louisiana's territorial waters. The objectives are to determine relative abundance, size distribution, and seasonal/long-term trends.

Trawl-6 foot

A 6 ft. balloon otter trawl is used to sample juvenile penaeid shrimp populations in shallow edge habitats in the interior marshes. Objectives are to characterize relative abundance, size distribution, and seasonal/long-term trends.

Butler Plate

Butler plates are used to sample oyster spat set. The purpose of Butler plate sampling is to nonquantitatively ascertain occurrence and peaks of oyster recruitment (set).

Square Meter

A one meter square frame is used on the public seed grounds to quantitatively determine oyster density and availability (i.e., seed and sack oysters) per unit area and to provide ancillary data on oyster recruitment, hooked mussel density, mortality and predators.

Oyster Dredge

A 24 inch (in.) wide oyster dredge is used to sample oysters, fouling organisms, and other sessile marine organisms. This gear nonquantitatively characterizes recruitment (i.e., spat set) and size distribution of oysters and provides ancillary data on oyster mortality and predators.

Seine

A 50 ft. bag seine is used to sample juvenile finfish, shellfish, and other marine organisms to monitor relative abundance, size distribution, and seasonal/long-term trends.

Gill Net

A 750 ft. experimental monofilament gill net is used to sample

finfish to obtain indices of abundance, size distribution, and ancillary life history information on selected species.

Trammel Net

A 750 ft. trammel net is used to sample finfish to obtain indices of abundance, size distribution, and ancillary life history information on selected species.

SAMPLING LOCATIONS

Sampling stations for each gear type are tabulated by CSA in Appendix Table 2.

Plankton stations are located in major tidal passes. The 16 ft. trawl stations are located in either the Gulf of Mexico or bays, sounds or lakes, while 6 ft. trawl stations are found in interior marsh, shallow edge habitats.

Butler plate samples are collected on the Bay Gardene/Black Bay (CSA II) oyster seed grounds. Oyster dredge and square meter stations are located on public seed grounds, seed reservations and tonging areas in CSA's I, II, III, V, VI, and VII.

One or two upper to lower estuarine transects for seine, gill net, and trammel net stations have been established in each CSA. Each net transect has a beach (or lower estuary), mid-estuary, and upper-estuary station, while each seine transect has a minimum of six stations.

SAMPLING FREQUENCY

Sampling frequency by gear type by time period are listed below:

<u>Gear Type</u>	<u>Periodicity</u>	<u>Time Period</u>
Gill Net	Monthly	Oct-Mar
	Twice Monthly	Apr-Sept
Trammel Net	Monthly	Oct-Mar
Seine	Monthly	Jan-Aug
	Twice Monthly	Sep-Dec
16 ft. Trawl (inshore)	Every other week	Nov-Feb
	Weekly	Mar-Oct
16 ft. Trawl (Gulf)	Every other week	Nov-Mar
	Monthly	Apr-Oct
6 ft. Trawl (regular)	Weekly	Apr-Closing of Spring Season

6 ft. Trawl (crash)	Weekly	Apr-Setting of Date of Spring Season
Plankton (CSA III & VII only)	Weekly	Jan-Setting of Date of Spring Season
Oyster Dredge	Monthly	Mar-Apr
	Twice Monthly	May-Jun and Aug-Oct
Square Meter	Annually	Jun-Jul
Butler Plates (CSA II only)	Weekly	Mar-Oct
*Discontinued		

Several specific area field sampling programs diverge in some fashion from the norm. In CSA's II and VI the 6 ft. crash stations are incorporated into the regular station group, no regular 6 ft. trawl samples are taken in CSA VII, and butler plate and plankton samples are collected only in CSA's II and III, respectively. Sampling protocol in CSA II is dictated by monitoring requirements for the freshwater diversion project. In CSA VI, previously designated 6 ft. crash stations were grouped with the regular 6 ft. stations many years ago. Plankton samples for brown shrimp postlarvae have been retained in CSA III because this area functions as an index for brown shrimp recruitment and abundance. No regular 6 ft. trawl samples are taken in CSA VII because of access problems into the interior marshes and the lack of a historical data base; however, special 6 ft. trawl samples are taken to monitor ingress of shrimp in relation to management of Catfish Locks and to check recruitment of shrimp in Black Lake prior to the inshore season openings.

ENVIRONMENTAL/INCIDENTAL OBSERVATIONS

Hydrological/climatological measurements are taken in conjunction with all biological samples. These parameters consist of air and water temperature (°C), turbidity (ft.), conductivity (millimhos/centimeter², cm²), and salinity (ppt). Air temperature is measured with a dry mercury thermometer recorded in degrees Celsius (°C) to the nearest 1/10 of a degree. Turbidity is measured with a 30 cm, white secchi disk suspended from a staff or line. The secchi disk is lowered into the water to the point at which it is no longer visible. The disk is then gradually raised up to the point at which it barely becomes visible below the surface; distance is then measured to the nearest 1/10 of a ft. Conductivity, salinity, and water temperature are measured to the nearest tenth in millimhos/cm², ppt, and °C, respectively, using a Beckman* RS-5 portable salinometer or equivalent. All instruments are calibrated as described in the instrument manual, or by standard EPA or APHA Standard Methods. A calibration log is maintained that includes notes of any problems with the meter, repairs, deviations from standard, etc.

Hydrological readings one foot beneath the surface and one foot above the bottom are taken at plankton, gulf 16 ft. trawl, and gill and trammel net stations. For Butler plate and square meter samples, readings are taken one foot above the bottom. Readings one foot beneath the surface are taken in conjunction with all remaining gear types.

Wind direction (degrees), wind speed (mph), and moon phase are all documented. Wind direction, habitat type and moon phase are recorded according to categories listed in Appendix Table 3.

In addition to hydrological/climatological observations, the

* Use of brand names does not imply product endorsement

following is recorded on each field data sheet: date, military time, area, station name and number, field personnel, etc.

GEAR DEPLOYMENT/ANALYSIS OF SAMPLES

Plankton Net

The plankton net is towed astern of the boat for 10 minutes at a speed and a track which keeps the net near the surface and out of the boat's prop wash.

Flow meter revolutions are recorded immediately before and after each tow, and are later converted to volume (cubic meters) of water filtered.

After each tow the sample is immediately placed in a sample jar, labeled, and preserved in a solution of 5-10% buffered formalin. Postlarval shrimp are identified and counted in the lab.

Trawl-16 ft.

The 16 ft. trawl is attached to a 1/2 in. diameter nylon rope or stainless steel tow line and bridle. The length of the bridle is 2-3 times the trawl width. Tow line length is normally at least 4-5 times the maximum depth of water.

The trawl is towed for ten minutes (timed from when the trawl first begins to move forward to when it stops forward movement) at a constant speed and in a weaving or circular track to allow the prop wash to pass on either side of the trawl.

All organisms are identified by species, counted, and up to 50 of each species measured in 5 millimeter (mm) intervals. Size

measurements are taken as follows: shrimp - anterior tip of rostrum to posterior tip of telson; crabs - carapace width; squid - mantle length; medusoid jellyfish - diameter; stingray - disc width; and other finfish - total length (tip of snout to tip of longest lobe of compressed caudal fin). Blue crabs larger than 55 mm (CW) are sexed and all females staged (i.e. immature, mature or gravid). The presence of the external parasite Loxothylacus texanus and eggs as well as molt phase (i.e soft) are noted under species specific observation codes.

Trawl-6 ft.

A 3/8 in. diameter tow line and bridle is attached to the 6 ft. trawl. Tow line and bridle length determinations are identical to that of the 16 ft. trawl.

Gear deployment is identical to that described for 16 ft. trawls. However, with the exception of CSA II, only penaeid shrimp are identified, counted, and measured (up to 50). All organisms are processed in CSA II.

Butler Plate

A lead ballast is tied below the Butler plate frame and a nylon line is used to suspend the apparatus from available structures for a seven day soak at a vertical mid depth position. Upon retrieval, Butler plates are rinsed with water to remove silt, detritus, and organisms not securely fastened to the plate and then air dried for 48 hours prior to examination.

All oyster spat on the bottom side of the top plate are counted using a low power binocular microscope. If spat are too numerous to tabulate, a subsample is taken by placing a clear plexiglass counting plate with square cm grids over the butler plate and counting spat in

five randomly selected grids.

Square Meter

The square meter frame is randomly thrown onto an oyster reef. A SCUBA diver removes all oysters, associated macroscopic organisms, and loose surface shell within the frames. All oysters and shells from recently dead oysters greater than 25 mm are counted and measured in 5 mm. intervals. Shells from dead oysters are classified as "box" (both valves attached) or "valve" (one valve). Oyster size is determined by measuring the "straight-line" distance from the hinge to the apex of the shell. Live gastropod, crab, and mussel predators are counted. Cultch type and reef condition (Appendix Table 3) are noted. A minimum of two replicate samples are taken at each station.

Oyster Dredge

The oyster dredge is towed from the boat for three minutes at each station. Dredge samples are processed as previously described for square meter samples, with the following exceptions: 1) only 100 each of live oysters greater than 25 mm, "box" shells, and "valve" shells are measured (remaining live oysters are counted); and 2) the number of spat (oysters <25 mm) are counted or estimated.

Seine

The ends of the seine are held open with 6 ft. poles which are attached to the float and lead lines. Seine sampling techniques can be subdivided into two general types - soft bottom and hard bottom. Sampling methodology utilized at each station is identified.

Seine samples collected over soft bottom areas are accomplished by attaching 100 ft. lengths of 1/2 in. diameter nylon or polydac rope to each seine pole bridle. The line is anchored to the shoreline by tying the end to a push-pole, paddle, anchor or other structure. The boat is quietly reversed until the line is fully extended. At this point the boat is turned 90° astern (parallel to the shoreline) and the seine is fed out over the boat's bow while making sure the cork line and bag are not tangled. As the end of the seine is placed overboard, the boat proceeds shoreward and is anchored or tied to the bank. The seine is hauled in by the two tow lines, with care being taken to keep the lead line on the bottom. The catch in the wings of the net is shaken down to the bag, and removed.

Seine samples collected over hard-bottom areas are taken in a more conventional manner. The seine is stretched out and pulled parallel to the shoreline for a distance of 75-100 ft. The outside end is then swept in toward the shoreline and the net is drawn ashore. Contents are then removed using methods described earlier.

All organisms collected in seine samples are identified to species and counted. Size, as described under 16 ft. trawl samples, of up to 30 randomly selected individuals of species listed in Appendix 4 are measured to the nearest mm. More specimens are measured if measurement of 30 (or general inspection of the sample) indicates that there may be more than one mode of length. Blue crabs greater than 75 mm. in carapace width are counted, measured, and released in the field. Species not listed in Appendix 4 are counted, and the total weight of the species recorded.

Gill Net

Large floats and anchor weights are attached to the ends of the float line and lead line, respectively. Gill net deployment begins with the 1 in. bar mesh end. After the float and weight are tossed

overboard adjacent to or on a shoreline or reef, the gill net is deployed over the transom of the net well. Net configuration or distance from shoreline or reef varies because of water depth, presence of obstructions, or physical space limitations. The net may be set parallel to the shoreline or reef or in a crescent shape. Enough room is left on one side of the net to allow the net skiff to enter and then maneuver within the net.

Fish are forced to strike the net by running the net skiff around both the inside and outside of the net a minimum of two or three times in gradually tightening circles. The net is then retrieved and pulled aboard from the down-wind or down-current end.

All organisms are removed and placed in baskets corresponding to each mesh size or panel of the net. Organisms are noted as gilled or tangled (ie., those fish which have not penetrated individual meshes to the back of the operculum). Up to 30 individuals of the species listed in Appendix Table 4 are individually measured (total length in mm); remaining individuals of these species are counted. Other species are counted and weighed in aggregate.

Additional information is obtained from selected species. Sex and gonadal condition (Appendix Table 3) are recorded for up to 30 individuals per mesh panel of red drum ($\geq 500\text{mm}$), spotted seatrout ($\geq 225\text{mm}$), striped mullet ($\geq 250\text{mm}$), black drum ($\geq 600\text{mm}$), southern flounder ($\geq 170\text{mm}$), sheepshead ($\geq 250\text{mm}$). If otoliths are removed from a fish for aging, then that fish is weighed individually, and the sex noted. Stomach contents, if recorded, are listed in order of biomass present. Stomach contents are recorded consistently for a species at a station; that is, they are recorded for all mesh codes, and for up to 30 randomly selected specimens in each mesh code. Species and species groups found in stomach analyses are coded using the 4-digit taxonomic codes. Certain partially digested, unidentifiable remains, have been assigned a separate series of 3-digit codes.

Trammel Net

Floats and weights are attached to the ends of the float line and lead line, respectively. The float and weight are thrown out adjacent to or on a shoreline or reef, and the net slowly deployed while at idle speed. Net configuration or distance from shoreline or reef varies because of water depth, presence of obstructions, or physical space limitations; therefore, the net may be set parallel to the reef or shoreline or in a half-moon shape. Enough room is left on one side of the net to allow the net skiff to enter and then maneuver within the net.

Fish are forced to strike the net by running the net skiff around both the inside and outside of the net at least two or three times in gradually tightening circles. The net is then retrieved from the down-wind or down-current end.

Fish are processed in the same manner as described earlier for gill net samples, except that there are no mesh or tangled/gilled code designations, and that more specimens of the species listed in Appendix Table 4 are individually measured if measurement of 30 (or general inspection of the sample) indicates that there may be more than one mode of length. Up to 50 red drum, spotted seatrout and black drum are individually measured and sexed, since these have special requirements, and may have bimodal distributions in the gear.

DATA ENTRY

Data entry utilizes codes and procedures outlined in the Office of Fisheries Mainframe Access System manual. Data is entered directly from field sheets using customized data entry programs on a PC or VTS terminal. All data is proofed and edited prior to submission as a permanent SAS data set on the mainframe computer.

Appendix Table 1. Specifications of gear utilized in Marine Fisheries Division.*

Plankton Net

The nylon plankton net has a 0.5 m stainless steel ring, a 5:1 length to diameter ratio and 500 micron mesh opening, and is equipped with a General Oceanics Number 2030 flow meter.

A standard plankton bucket with a smaller mesh size is attached to the tail of the net with clamps. A three point stainless steel bridle and 12.7 mm. diameter stainless steel ring is attached to the net's aperture.

Trawl-16 Foot

The webbing, size of individual sections, and other specifications for a 16 ft. flat otter trawl are depicted in the attached drawing. The body is constructed of 3/4 in. bar mesh No. 9 nylon mesh while the tail is constructed of 1/4 in. bar mesh knotted 35-lb. tensile strength nylon and is 54-60 in. long. The trawl is hung on 3/8 in. PDP rope with four 3 in. by 1 1/2 in. spongex floats on the corkline and with a minimum of 3 1/2 ft. extra rope on the corkline and leadline. The trawl has 16 ft. and 20 ft. of webbing along the cork and lead lines, respectively. The bottom chain (1/8 long link) is hung along the entire lead line in 20 links per loop intervals. Trawls are dipped in green plastic nylon net dip.

The trawl boards are constructed of 3/4 in. marine plywood and measure 24 in. across the top, 14 in. at the back, and 10 in. at the front with a 4 in. rounded corner. The bridle is constructed of four lengths of galvanized 3/16 in. chain while the bottom slide consists

of a 3/8 in. by 2 in. flat iron bar.

Trawl-6 Foot

The webbing, size of individual sections, and other specifications for a 6 ft. two-seam balloon trawl are depicted in the attached drawing. The body is constructed of 3/8 in. bar mesh No. 6 nylon mesh while the tail is constructed of 1/4 in. bar mesh No. 6 knotted nylon of 35 lb. tensile strength. The tail is approximately 12 in. wide and 40 in. long. The trawl is hung on 5/16 in. PDP rope with three 1 1/2 in. by 2 in. spongex floats on the corkline. Extra rope on corkline and leadline is a minimum of 2 1/2 ft. long. The trawls have 12 to 14 in. of slack in the lead line which is compensated by setting the bottom back 14 meshes. The chain is No. 3 American galvanized and is set as follows: two loops each side in set back 28 links each; and one loop centered on leadline.

The trawl doors or boards are constructed of 3/4 in. marine plywood and measure 14 in. across the top, 9 in. at the back, and 7 in. at the front. The door bridle is constructed of four lengths of 1/8 in. standard link galvanized chain and the bottom slide consists of 1/4 in. by 1-1/2 in. flat iron bar. Trawls are dipped in green plastic nylon net dip.

Butler Plate

This gear consists of two 4 in. square cement board collecting plates that are positioned horizontally on an eye bolt and held approximately 1/4 in. apart with spacers.

Square Meter

This gear consists of a one meter square aluminum frame.

Oyster Dredge

The dredge is 24 in. wide with 10 teeth.

Seine

The seine is 50 ft in. length, 6 ft in. depth and has a 6 ft. by 6 ft. bag in the middle of the net. The nylon, tarred ace webbing has a mesh size of 1/4 in. bar. A lead and float line runs the entire length of the seine.

Gill Net

The experimental gill nets are 750 ft. long, 8 ft. deep, and comprised of five 150 ft. panels of 1 in., 1-1/4 in., 1-1/2 in., 13/4 in., and 2 in. bar mesh. Minimum twine size is #139 for the 1 in. bar mesh and #208 for remaining mesh sizes. All panels are sewn together with high visibility twine in a continuous fashion and attached to the lead and cork lines using the one-half hanging ratio and double selvage. All junctions of the five panels are marked with high visibility twine. The float line is 3/8 in. diameter hollow braided polypropylene and the lead line is #60-75 lead core, 5/16 in. diameter lead core line. Tapered spongex floats (2 in. diameter and 3-1/2 in. long) are spaced every 4 ft. along the float line.

Trammel Net

The trammel nets are 750 ft. in length and 6 ft. in depth,

consists of 3 walls, and are constructed of nylon treated with
Appendix Table 1.

The inner wall has 1 5/8 in. bar mesh, a #6 twine meshes deep. The two outer walls have 6 in. bar black net dip. size and is 35 mesh, #9 twine size, and measures 7 meshes deep. The lead line is composed of #60-75 lead core. The float line is 3/8 in. diameter hollow braided polypropylene. Tapered spongex floats (2 in. diameter and 3-1/2 in. long) are spaced every 3 ft. along the float line. Webbing is hung along both the lead and cork line using the one-half hanging ratio and double selvage.

* Use of brand names do not indicate product endorsement.

Appendix Table 1.

Appendix Table 2. Sampling stations by gear type for each coastal study area (CSA).

CSA-I

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
16 ft. Trawl	Rigolets	095	30°09'12"	89°37'30"
(Inshore)	Treasure Pass	068	29°49'30"	89°25'12"
	Nine Mile Bayou	074	30°01'42"	89°25'06"
	Bayou Bienvenue	065	29°59'30"	89°52'18"
16 ft. Trawl	Petie Pass	098	30°05'00"	89°28'53"
(Crash)	Grand Pass	071	30°07'24"	89°14'24"
6 ft. Trawl	Marques Canal	096	30°04'42"	89°47'15"
(Regular)	Picnic Bayou	085	30°02'18"	89°17'00"
	Jules Cut	084	29°52'06"	89°20'18"
	Bayou Creque	089	30°05'30"	89°15'00"
	Bienvenue Lagoon	061	30°00'06"	89°54'18"
	Bayou Marron	076	29°59'42"	89°28'30"
	Bayou Platte	063	30°04'42"	89°44'18"
6 ft. Trawl	Bayou Mussel	086	29°54'42"	89°24'00"
(Crash)	Drum Bayou	088	30°06'01"	89°17'06"

	Bayou Eloi	067	2947'36"	8925'42"
Square Meter	Hospital Wall	---	3009'30"	8945'18"
	Grassy Island	---	3009'30"	8928'24"
	Halfmoon	---	3006'36"	8925'06"
	Le Petite Island	---	3005'24"	8929'06"
	Three Mile	---	3002'36"	8921'42"
	Grand Pass	---	3007'24"	8914'12"
	Cabbage Reef	---	3009'00"	8912'30"
	Little Bayou Pierre	---	3007'42"	8912'24"
	Martin Island	---	2957'36"	8912'30"
	Holmes Island	---	2956'18"	8912'24"
	Turkey Bayou	---	3006'12"	8917'42"
Dredge	Cabbage Reef	---	3011'00"	8913'00"
	Turkey Bayou	---	3005'45"	8918'00"
	3-Mile Pass	---	3003'00"	8922'00"
	Petit Pass	---	3005'00"	8928'50"
	Grassy Island	---	3009'00"	8928'00"

Appendix Table 2. Cont'd.

CSA I

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Seine	Pt. Gardner	143	2940'30"	8926'30"
	Deadman Island	146	2944'30"	8922'00"
	Sawmill Pass	149	3009'08"	8943'36"
	Little Lake	151	3009'48"	8935'39"
	Bayou Batola Bay	152	2945'12"	8938'42"
	Hopedale Lagoon	153	2948'18"	8938'24"
Gill Net	Hopedale Lagoon	101	2948'30"	8940'00"
	Bayou Batola Bay	102	2945'27"	8938'48"
	Pt. Gardner	103	2939'00"	8926'30"
	Lena Lagoon	105	2950'21"	8936'00"
	Deadman Island	106	2944'30"	8922'00"
	Lake Catherine	109	3007'30"	8942'48"
	Bayou Deedie	110	3006'36"	8940'22"
Trammel Net	Hopedale Lagoon	121	2948'30"	8940'00"
	Lake Coquille	122	2944'00"	8936'00"
	Pt. Gardner	123	2940'30"	8926'00"
	Lena Lagoon	125	2950'21"	8936'00"

Deadman Island	126	29°44'30"	89°22'00"
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Appendix Table 2. Cont'd.

CSA-II

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
16 ft. Trawl (Inshore)	Grand Pass	104	29°43'48"	89°36'30"
	Kelly Gap	085	29°27'18"	89°31'06"
	Pintail Pass	059	29°34'54"	89°36'36"
	Separator	105	29°37'48"	89°30'30"
6 ft. Trawl (Regular)	Cow Bayou	005	29°34'30"	89°42'48"
	Bayou La Croix	017	29°37'24"	89°51'30"
	Bass Field	018	29°36'06"	89°47'04"
	Little Crevasse	022	29°37'54"	89°47'15"
	Spanish Lake	102	29°42'12"	89°54'18"
	Petit Lake	025	29°42'48"	89°47'48"
	Lake Lery	101	29°47'54"	89°49'18"
	Four Horse Lake	103	29°41'48"	89°42'00"
	Bottle Bayou	021	29°42'24"	89°38'54"
	Bayou Palo	032	29°39'51"	89°32'24"
Fucich Bayou	036	29°30'03"	89°39'04"	
Butler Plate	Bay Laforche	052	29°35'24"	89°38'48"

	Bay Long	051	2931'42"	8938'00"
	Snake Island	011	2938'12"	8934'00"
	Bay Gardene	099	2935'54"	8937'12"
	Bay Crabe	26(59)	2934'48"	8936'18"
	Pelican Island	028	2931'00"	8933'54"
Square Meter	---	001	2937'30"	8932'30"
	---	002	2937'30"	8937'00"
	---	003	2937'15"	8934'15"
	---	004	2937'00"	8932'15"
	---	005	2936'00"	8936'50"
	---	006	2936'15"	8932'20"
	---	007	2935'10"	8934'00"
	---	008	2934'00"	8936'00"
	---	009	2934'30"	8933'15"
	---	010	2933'50"	8931'55"
	---	011	2933'00"	8933'30"
	---	012	2932'00"	8932'00"
	---	013	2931'20"	8932'30"
	---	014	2930'40"	8934'00"
	---	015	2930'50"	8931'40"
	---	016	2930'00"	8933'40"
	---	017	2930'30"	8935'30"

018

29°29'30"

89°31'15"

Appendix Table 2. Cont'd.

CSA-II

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Square Meter	---	019	2929'30"	8932'20"
	---	020	2930'25"	8932'45"
	---	021	2933'55"	89034'35"
	---	022	2933'15"	8934'00"
	---	023	2934'30"	8937'30"
	---	024	2935'00"	8938'50"
	---	025	2929'00"	8925'25"
	---	026	2936'15"	8929'00"
	---	027	2940'15"	8930'35"
Seine	Bayou La Croix	244	2938'14"	8951'02"
	Cocaho Lagoon	255	2937'22"	8947'52"
	B. Pt-a-la-Hache	250	2935'55"	89044'37"
	Bay Gardene	251	2935'46"	8937'18"
	Iron Banks	253	2932'07"	8932'08"
	Lost Lake	242	2945'53"	8949'10"
Gill Net	Lost Lake	202	2945'17"	8949'37"
	Spanish Lake	203	2942'25"	8953'47"

	Four Horse Lake	206	2940'42"	8941'38"
	Bayou Boue	209	2935'59"	8941'48"
	Black Bay	212	2937'31"	8936'14"
	Pelican Island	213	2930'00"	8932'18"
Trammel Net	Lake Lery	221	2947'00"	8951'00"
	Lake Batola	225	2940'15"	8947'48"
	Second Bay	228	2936'06"	8946'40"
	Bay Gardene	231	2935'46"	8937'18"
	California Bay	234	2932'00"	8936'00"
	Four Horse Lake	226	2940'42"	8941'38"

Appendix Table 2. Cont'd.

CSA-III

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Plankton				
	Four Bayou Pass	011	29°20'00"	89°52'30"
	Pass Abel	012	29°18'30"	89°55'00"
	Barataria Pass	013	29°16'15"	89°57'00"
	Caminada Pass	014	29°12'24"	90°02'45"
16 ft. Trawl				
(Offshore)	Grand Terre Beach	047	29°16'18"	89°55'58"
	3-Mile Grand Terre	045	29°15'03"	89°54'12"
	3-Mile Grand Isle	044	29°11'45"	89°57'06"
	Beach-G.I. Water Tower	048	29°15'00"	89°58'00"
16 ft. Trawl				
(Inshore)	St. Mary's Point	005	29°25'30"	89°56'00"
	Independence Island	008	29°18'30"	89°56'00"
	Caminada Bay	015	29°15'18"	90°01'36"
	Bay Ronquille	042	29°20'18"	89°52'12"
6 ft. Trawl				
(Regular)	Porpoise Bay	022	29°13'06"	90°04'54"

	Airplane Lake	020	29°13'18"	90°06'42"
	Bay Jaque	023	29°17'06"	90°07'42"
	Bay L'Ours	031	29°20'36"	90°05'06"
	Mud Lake	028	29°27'30"	90°00'36"
	Wilkinson Bay	040	29°27'48"	89°54'36"
	Bay Batiste	006	29°26'36"	89°50'30"
	Lake Grand Ecaille	009	29°23'00"	89°50'00"
	Bay Long	037	29°20'48"	89°49'24"
(until 6/96)	Grand Bank Bayou	033	29°19'12"	89°53'48"
	Bay Dispute	032	29°18'48"	89°52'18"

➡(crash before 6/96)

6 ft. Trawl	Creole Bay	003	29°21'42"	90°02'00"
(Crash)	Bayou Garci	030	29°15'06"	90°07'24"
	Bay Rambo	024	29°20'06"	90°07'18"
	Snail Bay	025	29°26'12"	90°03'48"
	Little Lake	029	29°27'42"	90°06'30"
	Lake Five	027	29°31'30"	89°57'15"
	Round Lake	026	29°33'42"	89°57'06"
	Billet Bay	052	29°21'48"	89°45'24"

Appendix Table 2. Cont'd.

CSA-III

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Square Meter	Lower Hackberry	001	2923'30"	9003'00"
	Middle Hackberry	002	2924'06"	9001'48"
	Upper Hackberry	003	2925'24"	9001'36"
Dredge	Lower Hackberry	001	2923'30"	9003'00"
	Middle Hackberry	002	2924'06"	9001'48"
	Upper Hackberry	003	2925'24"	9001'36"
Seine	Grand Terre Pond	340	2917'50"	8955'25"
	Grand Terre Beach	341	2915'00"	8957'50"
	Bassa Bassa Bay	342	2921'25"	8959'30"
	Manilla Village	343	2925'50"	8958'25"
	Turtle Bay	344	2931'10"	9004'60"
	Coffee Bay	345	2927'10"	9007'00"
Gill Net	East Grand Terre	301	2917'50"	8955'25"
	Grand Terre Beach	302	2915'00"	8957'50"
	Caminada Bay	303	2913'25"	9002'75"
	Grand Isle Beach	304	2909'60"	9005'25"

	Oaks Bay	305	29°20'20"	90°06'20"
	Manilla Village	307	29°25'50"	89°58'25"
	Fisherman's Point	310	29°31'10"	90°08'75"
Trammel Net	East Grand Terre	320	29°17'50"	89°55'25"
	Grand Terre Beach	321	29°15'00"	89°57'50"
	Queen Bess Island	323	29°18'30"	89°57'30"
	Manilla Village	324	29°25'50"	89°58'25"
	Turtle Bay	325	29°31'10"	90°04'60"
	Bassa Bassa Bay	326	29°21'25"	89°59'30"

Appendix Table 2. Cont'd.

CSA-IV

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
16 ft. Trawl (Offshore)	Whiskey Pass Beach	012	29°01'24"	90°46'10"
	Whiskey Pass Offshore	020	29°00'00"	90°50'00"
	WineIsland Beach	024	29°03'42"	90°38'42"
	Wine Island Offshore	025	29°00'42"	90°38'42"
16 ft. Trawl (Inshore)	Moss Bay	001	29°12'42"	90°40'52"
	Lake Barre	206	29°15'52"	90°33'15"
	Lake Pelto	209	29°05'00"	90°42'24"
	Terrebonne Bay	210	29°10'00"	90°33'54"
6 ft. Trawl (Regular)	Bay Henry	013	29°15'36"	90°40'37"
	Moss Bay	015	29°13'03"	90°42'02"
	Oak Bayou	019	29°09'00"	90°43'00"
	Bay Bourbeux	311	29°16'45"	90°34'00"
	Bayou Charles Theriot	312	29°17'20"	90°33'15"
6 ft. Trawl (Crash)	Bay Cocodrie	313	29°15'00"	90°39'00"
	Bay LeFleur	314	29°17'15"	90°36'30"
	Old Lady Lake	315	29°15'30"	90°24'10"

	Bay Jean La Croix	316	29°20'22"	90°25'00"
	Bay Rosa	317	29°18'00"	90°19'00"
	Little Lake	318	29°13'30"	90°15'25"
	L-1	319	29°11'30"	90°16'00"
	Devil's Bay	320	29°09'00"	90°15'30"
Seine	Trinity Bayou	440	29°05'00"	90°44'23"
	Bay Coon Road	441	29°08'53"	90°40'50"
	Bay Henry	442	29°15'25"	90°40'45"
	Cross Roads	443	29°18'08"	90°39'42"
	Lake Quitman	444	29°20'47"	90°40'20"
	Lake Boudreaux	445	29°27'10"	90°37'30"
Gill Net	Last Island	401	29°02'30"	90°47'48"
	Lake Tambour	402	29°17'47"	90°30'23"
	Wonder Lake	403	29°25'45"	90°31'25"
	Timbalier Island	404	29°05'18"	90°13'37"
	Pierle Bay	405	29°10'00"	90°17'24"
	Catfish Lake	406	29°22'05"	90°17'50"

Appendix Table 2. Cont'd.

CSA-IV

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Trammel Net	Last Island	420	29°02'30"	90°47'48"
	Oak Bayou	421	29°06'36"	90°43'06"
	Lake Boudreaux	422	29°25'23"	90°40'00"
	Old Lady Lake	423	29°12'45"	90°25'52"
	Lake Chien	424	29°19'36"	90°26'12"
	Sulphur Mine	425	29°27'60"	90°22'50"

Appendix Table 2. Cont'd.

CSA-V

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
16 ft. Trawl (Offshore)				
<u>Dropped 05/89</u>	4-mile Bayou DeWest	014	29°07'24"	91°06'54"
	1-mile Bayou Grand Caillou	009	29°10'00"	90°57'30"
	1-mile Bayou deWest	013	29°10'24"	91°03'12"
<u>Added 01/99</u>	3-mile Bayou deWest	021	29°08'06"	91°05'18"
16 ft. Trawl (Inshore)	Lake Mechant	005	29°19'50"	90°57'20"
	Caillou (Sister) Lake	008	29°15'40"	90°55'00"
	Bay Moncleuse	019	29°14'42"	90°51'42"
	Hackberry	020	29°12'30"	91°52'18"
6 ft. Trawl (Regular)	New Route Bay	051	29°17'21"	91°00'42"
	Mud Hole Bay	052	29°14'56"	91°00'36"
	American Bay	053	29°11'50"	90°56'36"
	Sanders Bay	054	29°15'06"	90°56'35"
	Mud Lake	056	29°16'48"	90°55'00"
	Sister Lake	057	29°15'36"	90°54'55"

6 ft. Trawl	Bayou Severin	055	2915'42"	9051'45"
(Crash)	King Lake	058	2915'48"	9059'00"
	Lost Lake	059	2919'36"	9104'00"
	Violin Lake	060	2916'42"	9103'42"
	Bay Del'Quest	061	2914'48"	9050'36"
	Redfish Bayou	062	2912'00"	9053'42"
	Hackberry Lake	063	2912'30"	9052'12"
	Dog Lake	064	2910'00"	9050'42"
	Bay Charlie	065	2910'24"	9048'12"
	Pelican Lake	066	2906'36"	9048'24"
<u>Added 04/99</u>	Mosquito Bay	067	2916'03"	9011'45"
Square Meter	Grand Pass	200	2915'28.5"	9055'45.5"
	Walker's Point	202	2914'50.9"	9056'16.9"
	Old Camp	203	2912'58.2"	9056'40.2"
	Mid Sister Lake	207	2914'00.1"	9055'14.7"
	N 94' Shell Plant	213	2915'02.9"	9055'30.9"
	M 94' Shell Plant	214	2914'16.5"	9055'33.8"
	S 94' Shell Plant	215	2913'14.1"	9053'53.6"
	N 95' Shell Plant	216	2915'25.1"	9056'10.1"
	C 95' Shell Plant	217	2914'21.8"	9054'18.3"
	North Bay Junop			
	@ Buckskin Bayou	251	2915'56.1"	9101'45.1"

Appendix Table 2. Cont'd.

CSA-V

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Square Meter	S Bay Junop @ Rat Bayou	252	29°13'06.6"	91°02'52.6"
	Mid Bay Junop	253	29°14'43.7"	91°03'08.6"
	Mid Bay Junop @ Hellhole Bayou	254	29°14'09.6"	91°03'47.6"
	S Bay Junop @ Bayou deWest	255	29°12'38.4"	91°03'18.2"
Dredge	Walkers Point	001	29°14'50.9"	90°56'16.9"
	Grand Pass	002	29°15'24.3"	90°56'47.2"
	Old Camp	004	29°12'57.7"	90°56'40.5"
	Outlaw Cove	006	29°13'04.0"	90°53'26.3"
	Mid Bay Junop	102	29°14'43.7"	91°03'08.6"
	Bayou de West	104	29°12'40.1"	91°03'18.8"
Seine	Last Island	540	29°03'18"	90°56'29"
	Bayou Grand Caillou	541	29°10'14"	90°56'00"
	Sister Lake	542	29°12'57"	90°55'40"
	Sander's Bay	543	29°15'22"	90°56'33"
	Mud Lake	544	29°17'28"	90°54'54"
	Bayou Chevreau	545	29°19'31"	90°54'10"
	Low Deuce	546	29°21'36"	90°55'09"

Gill Net	Lake Mechant	501	29°20'36"	90°57'30"
	Bay Junop	502	29°15'12"	90°02'27"
	Taylor's Bayou	503	29°10'41"	90°01'28"
	Raccoon Point	504	29°03'40"	90°57'38"
	Bayou Rambio	505	29°20'29"	90°45'18"
<u>Dropped 11/98</u>	Treasure Bayou	506	29°15'35"	90°47'36"
	Last Island	507	29°02'11"	90°49'24"
<u>Added 05/98</u>	Bay Antoine	510	29°14'44"	90°44'31"
Trammel Net				
<u>Dropped 03/94</u>	Rice Bayou	521	29°18'30"	91°05'10"
<u>Added 10/94</u>	Blue Hammock Bayou	531	29°18'09"	91°05'00"
	Bay Voisin	526	29°13'00"	90°58'50"
<u>Dropped 11/98</u>	Pelican Pass	527	29°10'20"	90°02'00"
	Bayou Rambio	528	29°20'00"	90°45'18"
<u>Dropped 11/98</u>	Bay Moncleuse	529	29°13'50"	90°48'30"
	Dog Lake	530	29°11'00"	90°50'50"
<u>Added 11/98</u>	Lake Mechant	532	29°19'35"	90°56'32"
<u>Added 11/98</u>	Bay Moncleuse	533	29°15'20"	90°51'23"

Appendix Table 2. Cont'd.

CSA-VI

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
16 ft. Trawl (Offshore)	Freshwater Bayou	428	29°31'57"	92°18'06"
	Tiger Shoal	443	29°25'00"	92°06'56"
	Little Hills (T-Butte)	444	29°34'06"	92°10'00"
	Lighthouse Point	445	29°34'08"	92°01'56"
	Shell Keys	446	29°26'18"	91°49'24"
	Mound Point	447	29°28'20"	91°48'39"
	South Point	448	29°29'00"	91°45'45"
16 ft. Trawl (Inshore)	Vermilion Bay	410	29°40'39"	91°58'33"
	Lake Point	419	29°34'24"	91°42'12"
	Vermilion River Cutoff	413	29°44'48"	92°06'00"
	Indian Point	442	29°37'50"	92°02'30"
	Blue Point	407	29°44'48"	91°52'27"
6 ft. Trawl (Regular)	Oyster Lake	409	29°31'18"	91°52'36"
	Lake Fearman	418	29°40'45"	92°09'00"
	Mud Lake	439	29°42'25"	92°09'10"
	Michael Cove	441	29°37'38"	91°56'36"
	Bayou Blanc	408	29°34'49"	91°47'59"
Square Meter	South Point/MI	---	29°29.0'	91°45.5'

	Big Charles/SWP	---	2937.4'	91°59.6'
	Dry Reef	---	2945.1'	91°54.9'
	Indian Point/SWP	---	2937.5'	92°00.5'
	Bayou Blanc	---	2930.8'	91°45.5'
Dredge	South Point	---	2929.00'	91°45.45"
	Big Charles	---	2945.45'	91°59.60"
	Indian Point	---	2937.50'	92°00.50"
Seine	SW Pass Beach	640	2934.9'	92°04.4'
	Lake Fearman	641	2941.1'	92°08.3'
	Boston Bayou	642	2947.4'	92°03.3'
	Mound Point	643	2928.5'	91°49.5'
	Bayou Lucien	644	2934.9'	91°54.2'
	Cypremort Cove	646	2943.7'	91°51.8'
	Stumpy Bayou	648	2950.4'	91°47.6'
Gill Net	'Ti Butte	601	2934.9'	92°05.6'
	Southwest Pass	602	2936.9'	92°02.6'
	Hell Hole	603	2936.8'	91°06.0'

Appendix Table 2. Cont'd.

CSA-VI

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Gill Net	Redfish Point	604	29°40.6'	92°07.4'
	South Point	607	29°31.4'	91°45.7'
	Lake Tom	608	29°35.0'	91°49.0'
	Cypremort Point Cove	610	29°43.7'	91°58.8'
Trammel Net	'Ti Butte	621	29°34.9'	92°05.6'
	Hell Hole	623	29°36.8'	91°06.0'
	Redfish Point	624	29°40.6'	92°07.4'
	South Point	627	29°31.4'	91°45.7'
	Lake Tom	628	29°35.0'	91°49.0'
	Cypremort Point Cove	630	29°43.7'	91°58.8'

Appendix Table 2. Cont'd.

CSA-VII

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
16 ft. Trawl (Offshore)	Gulf 90	090	2945'00"	9320'00"
	Gulf 91	091	2944'00"	9322'00"
16 ft. Trawl (Inshore)	Turner's Bay	012	3003'07"	9318'45"
	Hebert's Camp	025	2958'15"	9245'30"
	Grand Bayou	013	2951'45"	9314'20"
	Old Revetment	014	2950'45"	9318'02"
6 ft. Trawl (Special)	Little Pecan Bayou	---	2948'00"	9252'00"
	Gaspard's	---	2949'00"	9252'15"
	Locust Bay	---	2950'45"	9251'45"
	SE Black Lake	---	3000'30"	9324'00"
	SW Black Lake	---	3000'00"	9325'30"
	NW Black Lake	---	3001'15"	9325'30"
	NE Black Lake	---	3001'30"	9324'15"
Square Meter	Big Wash Out	001	2951'45"	9320'30"
	Little Wash Out	002	2951'20"	9320'30"
	East Side Mid. Lake	003	2951'20"	9320'00"
	SE Rabbit Island	004	2950'30"	9322'40"
	NE Rabbit Island	005	2951'00"	9323'00"

	West Cove Transplant	006	2951'00"	9322'00"
	Long Point	007	2955'10"	9319'20"
Dredge	Big Wash Out	001	2951'45"	9320'00"
	Little Wash Out	002	2951'20"	9320'00"
	NE Rabbit Island	003	2951'00"	9322'00"
Seine	Deatonville	741	3003'00"	9317'00"
	Commissary Point	742	2956'30"	9316'30"
	Lambert Bayou	743	2951'00"	9315'00"
	Turner's Bay	744	3003'30"	9318'30"
	N. West Cove	745	2953'00"	9323'30"
	S. West Cove	746	2950'00"	9322'30"
Gill Net	Deatonville	701	3003'00"	9317'00"
	Commissary Point	702	2956'30"	9316'30"
	Lambert Bayou	703	2951'00"	9315'00"
	Turner's Bay	704	3003'30"	9318'30"
	N. West Cove	705	2953'00"	9323'30"
	S. West Cove	706	2950'00"	9322'30"

Appendix Table 2. Cont'd.

CSA-VII

<u>Gear Type</u>	<u>Name</u>	<u>Number</u>	<u>Latitude</u>	<u>Longitude</u>
Trammel Net	Deatonville	721	30°03'00"	93°17'00"
	Commissary Point	722	29°56'30"	93°16'30"
	Lambert Bayou	723	29°51'00"	93°15'00"
	Turner's Bay	724	30°03'30"	93°18'30"
	N. West Cove	725	29°53'00"	93°23'30"
	S. West Cove	726	29°50'00"	93°22'30"

Appendix Table 3. Miscellaneous environmental/biological observation codes.

<u>TIDAL STAGES</u>	<u>HABITAT TYPE</u>
I - Incoming	
O - Outgoing	1 - Mud Flat
S - Standing	2 - Lagoon
	3 - Pass
	4 - Bayou
	5 - Bay
	6 - Lake
	7 - Open Sea
	8 - Pond
	9 - Dead End Pipeline Canal
	10 - Open End Pipeline Canal
	11 - Ship Channel
	12 - Oyster Reef
	13 - Closed Canal
	14 - Cove
	15 - Navigation Canal
 <u>MOON PHASE</u>	
1 - Full	
2 - First Quarter	
3 - New	
4 - Fourth Quarter	

CULTCH TYPE

REEF CONDITION

CS - Clam Shell ER - Exposed Reef

RS - Reef/Oyster Shell

CR - Combination Clam & Reef

LS - Limestone

RB - Rubble

ES - Exposed Scattered

BM - Buried Mud

BS - Buried Silt

SB - Spartina Bundles

GONADAL CONDITION INDEX

1 - Immature

2 - Resting stage mature fish (for fish collected after 7/1/96)

3 - Fat storage, absorption, and ripening stage

4 - Ripe

5 - Spent (flaccid gonads)

Appendix Table 4. Species list for individual measurements in seine, trammel, and gill net samples.

Individual measurements should be collected for the following list of species in gill and trammel net samples:

white shrimp	red drum*
all shark species	black drum*
alligator garfish	Atlantic croaker
gulf menhaden	southern kingfish
gafftopsail catfish	gulf kingfish
largemouth bass and	spot
all other centrarchids	bluefish
striped mullet	sheepshead*
striped bass	Spanish mackerel
spotted seatrout*	Florida pompano
sand seatrout	southern flounder

* species will have a minimum of 50 measured in trammel nets, as these have special requirements, and may have bi-modal distributions in that gear.

The same species should also be measured from seine samples, along with:

brown shrimp	any other penaeid shrimp
white shrimp	blue crab (all sizes)

Again, this list should be taken as a minimum, and should not preclude any species from measurements. For some dataset uses, measurement of all species may be important.

Appendix Table 5. Gear Specifications

EXPERIMENTAL MONOFILAMENT GILL NETS

Each net to be exactly 750' in length and exactly 8' in depth. Each net to be totally nylon monofilament in construction and composed of five (5) panels each of the following mesh sizes.

1. Exactly 150' X 8', 1" bar, 2" stretched mesh, and composed of #6 twine size with a diameter of 0.40 millimeters and break test strength of 17 pounds. Panel to measure 55 meshes deep and 1800 meshes long.
2. Exactly 150' X 8', 1 1/4" bar, 2 1/2" stretched mesh, and composed of #10 twine size with a diameter of 0.52 millimeters and minimum break test strength of 26 pounds. Panel to measure 44 meshes deep and 1500 meshes long.
3. Exactly 150' X 8', 1 1/2" bar, 3" stretched mesh, and composed of #10 twine size with a diameter of 0.52 millimeters and minimum break test strength of 26 pounds. Panel to measure 37 meshes deep and 1200 meshes long.
4. Exactly 150' X 8', 1 3/4" bar, 3 1/2" stretched mesh, and composed of #10 twine size with a diameter of 0.52 millimeters and minimum break test strength of 26 pounds. Panel to measure 32 meshes deep and 1050 meshes long.
5. Exactly 150' X 8", 2" bar, 4" stretched mesh, and composed of #10 twine size with a diameter of 0.52 millimeters and minimum break test strength of 26 pounds. Panel to measure 28 meshes deep and 900 meshes long.

All panels to be sewn together in a continuous fashion.

All panels to be doubled selved along both the cork and lead lines and attached to the cork and lead lines using the one-half hanging ratio.

Hangings to ensue the following sequence:

- (1" X 2") pick-up 12 meshes per 1' hanging,
- (1 1/4" X 2 1/2") pick-up 10 meshes per 1' hanging,
- (1 1/2" X 3") pick-up 8 meshes per 1' hanging,
- (1 3/4" X 3 1/2") pick-up 7 meshes per 1' hanging,
- (2" X 4") pick-up 6 meshes per 1' hanging.

Lead line and cork line to be hung with nybond 11 size #15 (green) twine.

All junctions of the five panels to be marked with high visibility red twine.

Float line to be composed of 3/8" diameter hollow braided polypropylene and lead line to be composed of #65, 5/16" diameter lead core line weighing 65 pounds per 600'.

Float line to have white tapered spongex floats, 2" in thickness, 3 1/2" in length with a 3/8" diameter hole and spaced every 4 feet along the entire length of the net.

Appendix Table 5. Gear Specifications (Cont'd)

EXPERIMENTAL TRAMMEL NETS

Each net to be exactly 750' in length by 6' in depth. Net to be totally nylon in construction. Mesh size to be:

Inner wall: 1 and 5/8" bar, 3 and 1/4" stretched mesh, #6 twine size.

Outer walls: 6" bar, 12" stretched mesh, #9 twine size.

Lead line to be #65 lead core, 5/16" diameter braided.

Float line to be composed of 3/8" diameter hollow braided polypropylene.

Float line to have white tapered spongex floats, 3 and 1/2" in length, 2" in thickness and a 3/8" diameter hole spaced every 3 feet along its entire length.

Webbing to be hung using the one-half hanging ratio and double selvage.

Depth of inner wall to be 36 meshes deep.

Depth of outer walls to be 7 meshes deep.

All webbing to chemically treated (tarred) so as to resist rotting. Vendor to minimize treatment of white spongex floats.

Vendor to avoid using too high of a chemical treating (tarring) concentration so as to maintain flexibility in the webbing.

Any substitutions in webbing twine size shall remain consistent with specifications listed.

EXPERIMENTAL BEACH SEINES

Each seine to be exactly 50' in length, 6' in depth and have a 6' X 6' bag as an integral part of the net.

Bag to be located mid-way the length of the net.

Mesh size throughout the seine to be 1/4" bar mesh, 1/2" stretched mesh and composed of heavy delta #44 knotless mesh.

Cork line and float line to be composed of 3/8" diameter nylon. Cork line to have tapered spongex floats, 2" in thickness, 3 and 1/2" in length with 3/8" diameter hole and spaced every 18" along the entire length of the net.

Lead line to have ball-shaped leads approximately 2 ounces in weight spaced every 18" along the entire length of the net.

Net to chemically treated (tarred) so as to resist rotting.

6' BALLOON TRAWLS

Two seam 6' balloon trawls, body to be constructed of 3/4" stretched (3/8" bar) mesh.

Mesh to be composed of # 6 (50 lb. test) nylon.

Bag to be constructed of 1/2" stretched (1/4" bar) mesh composed of # 44 heavy delta webbing. Bag to measure 75 meshes long.

Appendix Table 5. Gear Specifications (Cont'd)

Head-rope and foot-rope to be composed of 3/8" twisted poly dacron.

All hangings to utilize # 21 (204 lb. test) green nylon twine. Head-rope to be hung with three 1 1/2" X 2" spongex floats spaced 2' apart along the center of the head-rope.

A minimum of 2 1/2' feet of extra head-rope and foot-rope on each end of the net shall be provided in order to attach to doors.

Two loops (28 links each) of # 3 American galvanized chain to be hung in set back on each end of foot-rope with a third loop (14 links) centered and hung on the foot-rope.

Top of trawl body to measure 90 meshes at mouth, 15 meshes at tail and 120 meshes deep.

Bottom of trawl body to measure 90 meshes at mouth, 15 meshes at tail and 110 meshes deep.

Each wing to measure 26 meshes at mouth, 10 meshes at tail and 141 meshes total length.

Top corner wedges in wing to be 49 meshes long and 15 meshes wide with 4 meshes at end of wing.

Bottom corner wedges in wing to measure 54 meshes long and 15 meshes wide.

All trawls to be treated with green plastic net dip thinned to provide a reasonable degree of pliability.

6' TRAWL BOARDS

Boards to be constructed of 3/4" marine plywood.

Boards to measure 14" long, 9" tall at back and 7" tall at front with a 2" front rounded corner.

Chain bridle to be constructed of 1/8" standard galvanized links containing 16, 10, 15 and 9 links, respectively (see drawing).

Two iron flat bars measuring 1/4" X 1 1/2" X 12" to be bolted to the bottom side of each trawl door.

16' FLAT OTTER TRAWLS

Four seam flat otter trawl body to be constructed of 1 1/2" stretched (3/4" bar) mesh.

16' FLAT OTTER TRAWLS (Cont'd)

Mesh to be composed of # 9 (86 lb. test) nylon.

Bag to be constructed of ½" stretched (1/4" bar) mesh composed of # 44 heavy delta webbing. Bag to measure 54-60" long.

Head-rope and foot-rope to be composed of 3/8" twisted poly dacron.

All hangings to utilize # 21 (204 lb. test) green nylon twine.

Appendix Table 5. Gear Specifications (Cont'd)

Head-rope to be hung with four 3" X 1 ½ " sponges floats spaced evenly along the center of the head-rope.

A minimum of 3 ½' feet of extra head-rope and foot-rope on each end of the net shall be provided in order to attach to doors.

Foot-rope to be hung with 1/8" (long-link) chain along the entire length and hung in 20 links/loop intervals.

Top of trawl body to measure 120 meshes wide at mouth (to measure 16' of webbing along head-rope), 12 meshes at tail and 110 meshes deep.

Bottom of trawl body to measure 120 meshes at mouth (to measure 20' of webbing along foot-rope), 32 meshes at tail and 90 meshes deep.

Each wing to measure 30 meshes at mouth (29" staging from cork line to lead line), 21 meshes at tail and 140 meshes deep.

Top corner wedge to end with four (4) meshes.

Bottom corner wedge to end with three (3) meshes.

All trawls to be treated with green plastic net dip thinned to provide a reasonable degree of pliability.

16' TRAWL BOARDS

Slotted boards to be constructed of ½ " treated pine.

Boards to measure 24" long, 14" tall at back and 10" tall at front with a 4" front rounded corner.

Chain bridle to be constructed of 3/16" standard galvanized links containing 17, 10, 16 and 9 links, respectively (see drawing).

Curved iron flat bar measuring 3/8" X 2" to be bolted to the bottom of each trawl board (see drawing).

24" OYSTER DREDGE

Dredge to be constructed of 1/4" diameter iron rod and measure 30" tall and have a 1 and 1/2" diameter ring welded to its apex. Tooth bar to measure 24" and to contain 10 teeth with each tooth measuring 4 and 1/4" in length spaced 2" apart along the tooth bar.

Bag to be constructed of 5" knotted mesh. (Refer to drawings on file for more detailed specifications).